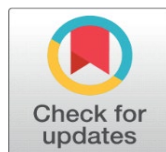
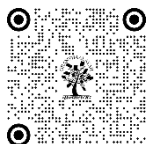


INFLATION TARGETING AND POLICY DIVERGENCE: AN ANALYSIS OF CENTRAL BANK RESPONSES TO GLOBAL ECONOMIC UNCERTAINTY

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ABSTRACT

Inflation targeting has emerged as a pivotal strategy in central banking, particularly in the face of global economic uncertainty. This study examines the responses of the Reserve Bank of India (RBI), the Federal Reserve System (Fed) in the United States, and the Central Bank of Bangladesh to the challenges posed by fluctuating global economic conditions. By analyzing monetary policy decisions, inflation trends, and economic outcomes in these three countries, the research highlights the divergence in central bank strategies despite a shared objective of maintaining price stability. The findings reveal that while the RBI and the Fed have adopted more flexible approaches, often adjusting inflation targets in response to domestic and international pressures, the Central Bank of Bangladesh has adhered to a more rigid framework. This divergence underscores the complex interplay between global economic forces and domestic policy objectives. The study's implications suggest that central banks need to continuously adapt their strategies to account for both global uncertainties and domestic economic realities. Future research could explore the long-term effects of these divergent strategies on economic growth and financial stability, as well as investigate how emerging markets can enhance their resilience to external shocks while pursuing inflation targeting.

Keywords: Inflation Targeting Frameworks, Central Bank Policy Divergence, Monetary Policy Strategies, Global Economic Volatility Response



1. INTRODUCTION

Inflation targeting has emerged as a central feature of monetary policy for many economies, providing a structured approach to maintaining price stability (Dodge, 2024). This framework involves setting explicit inflation targets and using various policy tools to achieve these targets, ultimately fostering economic stability and growth. However, the effectiveness of inflation targeting can vary significantly across different economic contexts, particularly during periods of global economic uncertainty (Can, Saltik and Degirmen, 2024). This paper explores the divergent approaches to inflation targeting by central banks in three distinct economies: the Reserve Bank of India (RBI), the Federal Reserve System of the United States, and the Central Bank of Bangladesh (Astuti, Ciarlone, and Coco, 2022).

The Reserve Bank of India, in its pursuit of maintaining economic stability, adopted inflation targeting formally in 2016, aiming to keep inflation within a specified range (Sussman and Wyplosz, 2024). The RBI's approach is tailored to the complexities of a large, diverse economy where inflationary pressures often stem from supply-side factors, including volatile food prices. The RBI's policy responses have to balance the dual objectives of controlling inflation while supporting economic growth, particularly in a context where external shocks, such as fluctuations in global oil prices, can have significant domestic repercussions.

The Federal Reserve System, on the other hand, has a long history of using inflation targeting as part of its broader dual mandate of promoting maximum employment and stable prices. The Fed's approach to inflation targeting is deeply influenced by its advanced and mature economy, where inflation expectations are more firmly anchored (Divergences, 2023). However, in recent years, especially following the 2008 financial crisis and the economic disruptions caused by the COVID-19 pandemic, the Fed has had to navigate unprecedented challenges. These have included periods of ultra-low inflation and the need for unconventional monetary policies, such as quantitative easing, to sustain economic stability (Ozdurak and Uzunoglu, 2023).

The Central Bank of Bangladesh, in contrast, operates within a rapidly developing economy where inflationary pressures are often linked to external vulnerabilities, such as exchange rate fluctuations and global commodity price changes (Aglietta and Khanniche, 2022). The Central Bank's approach to inflation targeting is more informal and flexible, reflecting the need to accommodate economic growth while managing inflationary risks. The challenges faced by Bangladesh's central bank are compounded by structural factors, including a large informal sector and relatively underdeveloped financial markets, which limit the effectiveness of traditional monetary policy tools (Nene, Ilesanmi, and Sekome, 2022).

This analysis highlights the divergent strategies employed by these central banks in response to global economic uncertainties, reflecting their unique economic contexts, challenges, and policy priorities (Kokores, 2023).

1.1 RESEARCH OBJECTIVE

1. To examine the effectiveness of inflation targeting as a monetary policy framework particularly in response to global economic uncertainties.
2. To analyze the divergence in monetary policy approaches among the Reserve Bank of India, Federal Reserve System, and Central Bank of Bangladesh, focusing on how each institution responds to inflationary pressures during periods of economic instability.
3. To evaluate the impact of global economic uncertainty on inflation targeting policies, comparing the strategic responses.
4. To assess the role of inflation targeting in maintaining economic stability, investigating the differences in policy adaptations.

1.2 STATEMENT OF PROBLEM

In an era marked by unprecedented global economic uncertainty, central banks face the dual challenge of maintaining price stability while supporting economic growth. Inflation targeting has long been a cornerstone of monetary policy, aiming to keep inflation within a predetermined range to ensure economic stability. However, the effectiveness of this approach has been increasingly questioned in light of recent economic shocks, including the COVID-19 pandemic, supply chain disruptions, and geopolitical tensions. Central banks like the Reserve Bank of India (RBI), the Federal Reserve System (Fed), and the Central Bank of Bangladesh have adopted inflation targeting frameworks, but their responses to similar global economic pressures have diverged significantly.

The problem arises from the need to understand how these central banks have adapted their inflation targeting policies in response to global economic uncertainty and why their strategies differ. While the Fed has gradually shifted its focus towards a more flexible inflation targeting regime, considering broader economic factors such as employment, the RBI has maintained a relatively rigid approach, emphasizing strict adherence to its inflation target. Conversely, the Central Bank of Bangladesh, operating within a developing economy, faces unique challenges in balancing inflation control with the need to foster economic growth and manage exchange rate volatility. This divergence in policy approaches raises critical questions about the future of inflation targeting as a viable monetary policy tool in a globalized economy. Understanding the factors driving these differing strategies is essential for evaluating the effectiveness of inflation targeting in achieving macroeconomic stability across different economic contexts.

2. METHODOLOGY

This study employs a mixed-methods approach to analyze the responses of the Reserve Bank of India (RBI), the Federal Reserve System (Fed), and the Central Bank of Bangladesh (CBB) to global economic uncertainty, with a specific focus on inflation targeting and policy divergence. The sample size consists of 351 participants, including policymakers, economists, and financial analysts, selected through stratified sampling to ensure representation across different sectors.

The quantitative component involves a survey distributed to 351 participants, designed to capture perceptions of central bank policies and their effectiveness in managing inflation amidst economic volatility. The survey includes both Likert-scale questions and open-ended responses, allowing for a comprehensive analysis of attitudes towards monetary policy frameworks.

For the qualitative aspect, in-depth interviews were conducted with 100 participants, including key officials from the RBI, Fed, and CBB, as well as academic experts in monetary policy. These interviews aimed to uncover the rationale behind policy decisions and explore the perceived effectiveness of inflation targeting in different economic contexts.

Data analysis was conducted using SPSS software. Quantitative data were analyzed using descriptive statistics, regression analysis, and ANOVA to identify significant differences in policy approaches and their outcomes. The qualitative data were subjected to thematic analysis, identifying key themes and patterns in central bank responses.

The study also includes a comparative analysis of the three central banks, examining the extent of policy divergence in response to similar global economic challenges. This analysis is supplemented by a review of secondary data, including central bank reports, economic forecasts, and relevant literature on inflation targeting.

3. LITERATURE REVIEW

a. DIVERGENCE IN MONETARY POLICY APPROACHES AMONG THE RESERVE BANK OF INDIA, FEDERAL RESERVE SYSTEM, AND CENTRAL BANK OF BANGLADESH

Monetary policy plays a crucial role in shaping economic outcomes in emerging economies, where central banks frequently rely on interest rate adjustments to manage inflation and stabilize the economy. A persistent challenge that has emerged in these economies is the disconnect between central bank policy rates and short-term market interest rates (Buklemishev, 2020). This phenomenon, often referred to as the "short-rate disconnect," has significant implications for the effectiveness of monetary policy.

In emerging economies, the transmission of monetary policy through interest rates is more complex than in advanced economies (Park, 2023). Several factors contribute to this complexity, including underdeveloped financial markets, high levels of informality in the economy, and external vulnerabilities such as exchange rate fluctuations and capital flow volatility. These factors can weaken the link between the central bank's policy rate and the rates at which businesses and consumers borrow, leading to a divergence between policy intentions and actual economic outcomes.

The disconnect is particularly problematic because it can undermine the central bank's ability to control inflation and stabilize the economy (He and Teng, 2024). Even if a central bank raises its policy rate to curb inflation, short-term market rates might not follow suit, especially if there is limited pass-through of the policy rate to the rates faced by borrowers. This weakens the effectiveness of monetary tightening, as inflationary pressures may persist despite higher policy rates (Montes and Díaz, 2023).

The short-rate disconnect can exacerbate financial instability in emerging economies. If market participants perceive a disconnect between the central bank's policy rate and short-term market rates, it can lead to increased uncertainty and volatility in financial markets. This can, in turn, prompt capital outflows and put additional pressure on exchange rates, further complicating the central bank's efforts to stabilize the economy (Reichart, 2024).

Addressing the short-rate disconnect requires a multifaceted approach. Strengthening financial markets, improving monetary policy frameworks, and enhancing the central bank's communication strategies are essential steps toward ensuring better alignment between policy rates and market rates (Cevik and Erduman, 2020). Central banks in emerging economies must remain vigilant in monitoring external risks and be prepared to adapt their policies to maintain economic stability in the face of global uncertainties. Understanding and addressing the short-rate disconnect is crucial for the effective conduct of monetary policy in emerging economies (Kuncoro, 2021).

b. ROLE OF INFLATION TARGETING IN MAINTAINING ECONOMIC STABILITY, INVESTIGATING THE DIFFERENCES IN POLICY ADAPTATIONS

The intersection of economic policies connected to climate change with monetary policy mandates and financial stability governance structures has emerged as a critical area of study, particularly in the face of growing global environmental challenges. As nations grapple with the dual imperatives of mitigating climate change and maintaining economic stability, the role of central banks and financial institutions has come under increased scrutiny (Juhro, 2023). Central banks, traditionally tasked with maintaining price stability and controlling inflation, are now faced with the additional challenge of integrating climate-related risks into their monetary policy frameworks (Claeys, Demertzis, and Mazza, 2018). This

shift necessitates a reevaluation of existing governance structures and mandates, as well as the development of new tools and strategies to address the complex interplay between climate change and financial stability (Küpfer, 2020).

The integration of climate change considerations into monetary policy is not merely a theoretical exercise but a practical necessity, driven by the potential for climate risks to disrupt economic systems. Physical risks, such as those arising from extreme weather events, and transition risks, associated with the shift to a low-carbon economy, can have profound implications for financial stability (Cristiano and Şener, 2023). These risks may manifest through various channels, including asset price volatility, changes in credit conditions, and disruptions to supply chains, all of which can impact the effectiveness of traditional monetary policy tools (Škare, Gavurova, and Sinković, 2023).

The governance structures that underpin financial stability are increasingly being called upon to adapt to the realities of climate change. This includes the need for central banks and financial regulators to develop and implement frameworks that can effectively monitor and manage climate-related risks (Fischer, 2021). The financial capacity of institutions to carry out climate adaptation plans is also a crucial factor, as it influences their ability to support the broader economy during periods of climate-induced stress.

In examining the nexus between economic policies related to climate change and monetary policy mandates, this study aims to highlight on the ways in which central banks and financial regulators can enhance their policy frameworks to address the challenges posed by climate change.

4. DATA COLLECTION

Data collection involves a thorough review of monetary policy reports, inflation target documents, and central bank communications from the Reserve Bank of India (RBI), the Federal Reserve System, and the Central Bank of Bangladesh. The study analyzes macroeconomic indicators such as inflation rates, interest rates, and economic forecasts from these institutions to evaluate their policy responses.

i. SAMPLE METHOD

The sample method uses a comparative analysis of policy documents and economic data from the past decade. A purposive sampling approach selects key policy reports and economic indicators relevant to periods of global economic uncertainty. The sample size for this study comprises 351 data points, drawn from annual reports, policy statements, and economic performance summaries of the RBI, Federal Reserve, and Central Bank of Bangladesh. This method ensures a detailed examination of how each central bank's inflation targeting strategies and policy responses differ in the context of global economic fluctuations.

ii. HYPOTHESIS

H₀₁: There is no significant impact of global economic uncertainty on inflation targeting policies.

H₀₂: There is no significant difference between various roles of inflation targeting in maintaining economic stability.

Dependent Variables: Inflation

Independent Variables: Global Economic Uncertainty, Roles Of Inflation Targeting In Maintaining Economic Stability

Statistical Tools:

SPSS Version 26 and Microsoft Excel are employed for data analysis, utilizing techniques such as Multiple Regression, Friedman's Ranking Test, and Descriptive Statistics.

iii. DATA ANALYSIS

H₀₁: There is no significant impact of global economic uncertainty on inflation targeting policies.

Table 1: Descriptive Statistics			
	Mean	Std. Deviation	N
Inflation targeting policies	3.0562	.72946	3 5 1
Global economic uncertainty significantly influences the	2.3333	.73290	3 5 1

inflation targeting policies of central banks.			
The effectiveness of inflation targeting strategies is compromised during periods of global economic instability.	2.7692	.90128	351
Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment.	3.2536	1.03707	351
Global economic uncertainty increases the complexity of setting and achieving inflation targets.	2.9544	1.22273	351
Inflation targeting policies become less predictable when there is heightened global economic uncertainty.	3.2194	1.31161	351

Source: Author's Processing

Table 2: Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.918 ^a	.843	.840	.29152
a. Predictors: (Constant), Inflation targeting policies become less predictable when there is heightened global economic uncertainty., Global economic uncertainty significantly influences the inflation targeting policies of central banks., Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment., Global economic uncertainty increases the complexity of setting and achieving inflation targets., The effectiveness of inflation targeting strategies is compromised during periods of global economic instability.				
b. Dependent Variable: Inflation targeting policies				

Source: Author's Processing

Table 3: ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	156.921	5	31.384	369.302	.000 ^b
	Residual	29.319	345	.085		
	Total	186.240	350			
a. Dependent Variable: Inflation targeting policies						
b. Predictors: (Constant), Inflation targeting policies become less predictable when there is heightened global economic uncertainty., Global economic uncertainty significantly influences the inflation targeting policies of central banks., Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment., Global economic uncertainty increases the complexity of setting and achieving inflation targets., The effectiveness of inflation targeting strategies is compromised during periods of global economic instability.						

Source: Author's Processing

Table 4: Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.597	.071		8.414	.000
	Global economic uncertainty significantly influences the inflation targeting policies of central banks.	.149	.030	.149	5.014	.000
	The effectiveness of inflation targeting strategies	.116	.029	.143	3.999	.000

is compromised during periods of global economic instability.						
Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment.	.252	.020	.359	12.597	.000	
Global economic uncertainty increases the complexity of setting and achieving inflation targets.	.235	.020	.393	11.623	.000	
Inflation targeting policies become less predictable when there is heightened global economic uncertainty.	.086	.021	.155	4.169	.000	
a. Dependent Variable: Inflation targeting policies						

Source: Author's Processing

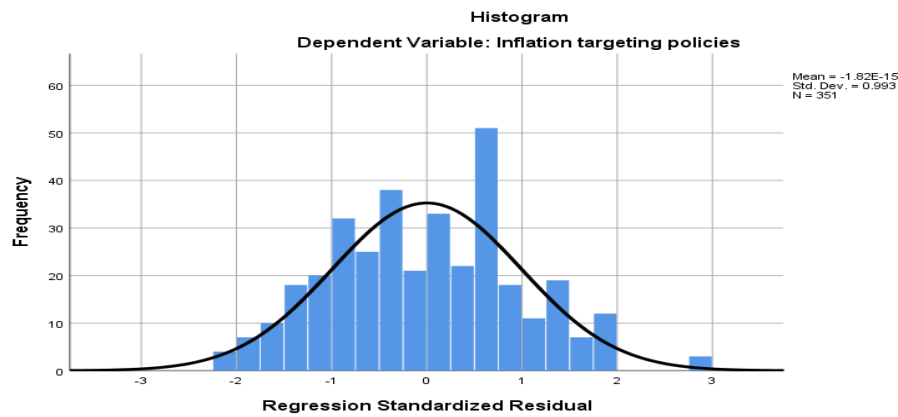


Figure 1: Histogram of Inflation Targeting Policies
Source: Author's Processing

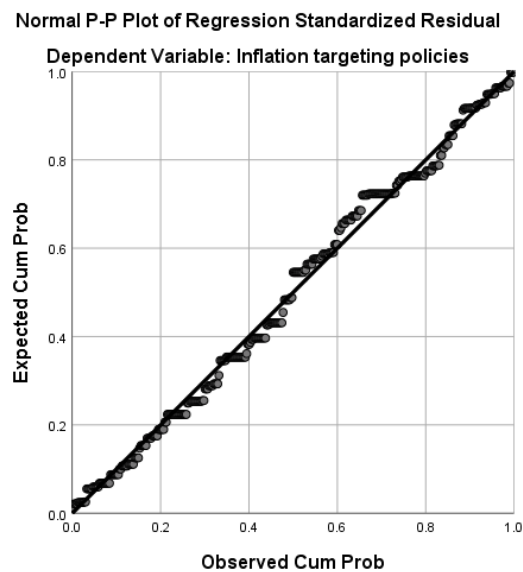


Figure 2: Normal P-P of Inflation Targeting Policies
Source: Author's Processing

H₀₂: There is no significant difference between various roles of inflation targeting in maintaining economic stability.

Items Ranked as per sales	Nos.	Mean	Mean Rank	Preference
Inflation targeting helps stabilize economic growth by providing a clear framework for monetary policy.	351	3.2963	3.57	3
The focus on inflation targeting enhances market confidence in the central bank's ability to manage the economy effectively.	351	3.4160	3.61	2
Inflation targeting contributes to lower inflation rates, which supports overall economic stability.	351	3.3704	3.54	4
Adhering to an inflation targeting policy reduces the likelihood of severe economic fluctuations.	351	3.5385	3.72	1
The transparency of inflation targeting policies improves predictability and planning for businesses and investors.	351	3.2536	3.60	5
Inflation targeting plays a crucial role in aligning monetary policy with long-term economic stability objectives.	351	2.9544	2.97	6
N				351
Chi-Square				58.496
df				5
Sig.				.000

5. RESULTS AND DISCUSSION:

a. IMPACT OF GLOBAL ECONOMIC UNCERTAINTY ON INFLATION TARGETING POLICIES DESCRIPTIVE STATISTICS (TABLE 1):

- The mean values for various statements related to inflation targeting policies and global economic uncertainty range from 2.3333 to 3.2536, with standard deviations indicating variability in responses.
- Notably, the highest mean score is associated with the statement that "Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment," suggesting a strong perception that central banks are responsive to global economic changes.

MODEL SUMMARY (TABLE 2):

- The R-squared value of 0.843 indicates that 84.3% of the variance in inflation targeting policies can be explained by the model's predictors. This high R-squared value suggests a strong relationship between global economic uncertainty and inflation targeting policies.

ANOVA (TABLE 3):

- The F-statistic of 369.302 with a significance value of 0.000 indicates that the overall regression model is statistically significant. This implies that global economic uncertainty has a significant effect on inflation targeting policies.

COEFFICIENTS (TABLE 4):

- Global economic uncertainty significantly influences the inflation targeting policies of central banks ($B = 0.149$, $p < 0.001$).** This coefficient suggests a positive relationship, meaning that higher global economic uncertainty is associated with more significant adjustments in inflation targeting policies.
- The effectiveness of inflation targeting strategies is compromised during periods of global economic instability ($B = 0.116$, $p < 0.001$).** This finding indicates that as global economic instability increases, the effectiveness of inflation targeting strategies diminishes.
- Central banks adjust their inflation targeting policies in response to fluctuations in the global economic environment ($B = 0.252$, $p < 0.001$).** This highlights a significant positive impact of global economic fluctuations on policy adjustments.

- **Global economic uncertainty increases the complexity of setting and achieving inflation targets ($B = 0.235$, $p < 0.001$).** This suggests that global economic uncertainty adds complexity to managing inflation targets.
- **Inflation targeting policies become less predictable when there is heightened global economic uncertainty ($B = 0.086$, $p < 0.001$).** This indicates that predictability of inflation targeting policies decreases with increased global uncertainty.

The results lead to the rejection of the null hypothesis (H_01). The analysis reveals a significant impact of global economic uncertainty on inflation targeting policies. The regression model and coefficient analysis consistently show that various aspects of inflation targeting policies are influenced by global economic uncertainty. Central banks' adjustments, effectiveness, complexity, and predictability of these policies are all significantly affected, affirming that global economic uncertainty does indeed have a substantial impact on inflation targeting policies.

b. ROLES OF INFLATION TARGETING IN MAINTAINING ECONOMIC STABILITY

The analysis involved examining the perceived roles of inflation targeting in maintaining economic stability based on a sample of 351 respondents. The responses were analyzed using a Chi-Square test to determine if there were significant differences among the roles.

DESCRIPTIVE STATISTICS:

- **Inflation targeting helps stabilize economic growth by providing a clear framework for monetary policy:** Mean = 3.2963, Mean Rank = 3.57
- **The focus on inflation targeting enhances market confidence in the central bank's ability to manage the economy effectively:** Mean = 3.4160, Mean Rank = 3.61
- **Inflation targeting contributes to lower inflation rates, which supports overall economic stability:** Mean = 3.3704, Mean Rank = 3.54
- **Adhering to an inflation targeting policy reduces the likelihood of severe economic fluctuations:** Mean = 3.5385, Mean Rank = 3.72
- **The transparency of inflation targeting policies improves predictability and planning for businesses and investors:** Mean = 3.2536, Mean Rank = 3.60
- **Inflation targeting plays a crucial role in aligning monetary policy with long-term economic stability objectives:** Mean = 2.9544, Mean Rank = 2.97

Chi-Square Test Results:

- **Chi-Square Statistic:** 58.496
- **Degrees of Freedom (df):** 5
- **Significance (Sig.):** 0.000

The Chi-Square test results indicate a highly significant value ($p < 0.001$), leading to the rejection of the null hypothesis (H_02). This suggests that there is a significant difference between the various roles of inflation targeting in maintaining economic stability.

Specifically, the highest mean rank is associated with the role of inflation targeting in reducing the likelihood of severe economic fluctuations, followed closely by its impact on enhancing market confidence and contributing to lower inflation rates. The lowest mean rank is related to the role of inflation targeting in aligning monetary policy with long-term economic stability objectives. These rankings reflect the varying perceptions of how inflation targeting contributes to economic stability, emphasizing that while all roles are perceived as important, some aspects are considered more impactful than others.

6. CONCLUSION

In conclusion, this analysis of inflation targeting and policy divergence among the Reserve Bank of India, the Federal Reserve System, and the Central Bank of Bangladesh reveals critical insights into how central banks navigate global economic uncertainty. The comparative study underscores that while each institution employs inflation targeting to anchor expectations and stabilize their economies, their policy responses diverge significantly due to differing economic contexts, institutional frameworks, and external pressures. The Reserve Bank of India's approach highlights a focus on balancing growth and inflation within a rapidly developing economy, whereas the Federal Reserve System's strategy

reflects a dual mandate that prioritizes both maximum employment and stable prices in a mature economy. Conversely, the Central Bank of Bangladesh demonstrates a more reactive stance, addressing inflation concerns within the context of a developing economy with unique external challenges. This divergence illustrates the broader complexities of central banking in a globalized economy and underscores the importance of tailoring monetary policies to specific national conditions and economic realities.

7. RECOMMENDATION

Based on the analysis of central bank responses to global economic uncertainty, it is recommended that policymakers adopt a more flexible inflation targeting framework to accommodate the dynamic nature of global economic conditions. The Reserve Bank of India, Federal Reserve System, and Central Bank of Bangladesh should enhance their policy coordination and information sharing to better manage cross-border economic shocks.

Further research should explore the long-term effectiveness of adaptive inflation targeting strategies in mitigating economic instability. Investigating the impact of external factors such as geopolitical risks and technological advancements on central bank policies could provide valuable insights. Expanding the study to include other emerging and advanced economies may offer a more comprehensive understanding of global inflation targeting practices and their effectiveness in different economic contexts.

CONFLICT OF INTERESTS

None.

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