

Banking Reforms and Economic Growth: A Case Study of Pakistan

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ABSTRACT: Banks indulge in catering the needs of government, public sector organization and private businesses. Government of Pakistan introduced several reforms for the improvement of banking sector. State Bank of Pakistan (SBP) has taken many influential steps in order to increase performance of banks in Pakistan. The study aimed to explore impact of financial reforms on economic growth of Pakistan and correlation among economic growth, deposits, lending, real interest rate, savings, and inflation, taking data if thirty six years. Regression analysis using E-Views was applied and explored a positive impact of financial reforms on economic growth. It is recommended to the government to remove the interest rate ceiling and overcome the problem of inflation.

1. INTRODUCTION

Banks indulge in catering the needs of government, public sector organization and private businesses. Government of Pakistan introduced several reforms for the improvement of banking sector. Fewer lending to small and medium enterprises was given before the reforms. Medium enterprises generated most of development and employment in the country. State Bank of Pakistan (SBP) has taken many influential steps in order to increase performance of banks in Pakistan. Economic development of a country can be ensured either by optimally utilizing the available resources or revamp the procedures to employ already available resources. The banking sector plays a vital role in the developmental activities, as they offer financial resources to the public and private sector for achieving the developmental goals. Before the reforms there was no balanced structure in banks. In mid 1980s public sector banks were dominating the financial sector. At that time foreign banks were more in numbers than state owned but they were not in direct competition with state-owned. Government allowed local private banks to operate and privatize national banks in 1990s. Main aim of these reforms was to restructure banking sector and make banks compatible. Non performing loans were the main concern of the banking industries, as they failed to recover these loans. This inability of the banks damaged the lending capacity and their overall efficiency; the technological advancement has contributed a lot in the revolutionary changes in the banking industry of Pakistan (Farooq et al., 2010).

Reforms were introduced in a number of different dimensions; privatization of public financial institutions, removal of restrictions to entry into banking, measures aimed at spurring competition in financial markets, reduction of legal reserve requirements, elimination of directed lending, prudential regulation measures, measures aimed at securities markets development and openness of capital account etc along with interest rate liberalization. Financial reforms are considered to be represented in the form of inflation, national savings, schedule banks deposits, schedule banks lending and interest rate spread. After financial reforms the banking sector of Pakistan witnessed highly positive financial results. Though banks maintained upward trend in profitability, following factors created challenges for SBP: changing ownership structure, transformation in banking system composition, growing market competition, technological advancement and enhanced focus on corporate governance culture. According to Hussain (2004) banking system plays an important role in financial sector and accounts for 95% of this sector and demonstrated a positive relationship with economic growth of Pakistan. The above ascertainment is the basis of this study i.e.

exploring impact of financial reforms on economic growth of Pakistan. The study will be useful in understanding impact of reforms in financial sector on economic development of Pakistan and will also be useful for financial analysts to check overall banking role in promoting domestic and foreign saving and investment.

Following are the objectives of the study:

- Explore impact of financial reforms on economic growth of Pakistan.
- Explore relationship among economic growth, deposits, lending, real interest rate, savings, and inflation.

Second chapter is about the literature review. Third and fourth chapters explain methodology and results. Fifth and sixth chapters enumerate conclusions and recommendations, respectively.

2. LITERATURE REVIEW

Tressel and Detragiache (2008) demonstrated a positive impact of the banking reforms on economic growth, especially in those countries where institutional environment was conducive. Khan, Qayyum and Ahmad (2005) examined structural constancy of financial intensification in the presence of financial sector reforms which were integral part of liberalization process of economy. They demonstrated that financial depth and real interest have a positive impact on economic growth in long run. They ascertained, on the basis of their findings, that financial development has a vital and positive impact on the economic growth of a country. Saez (2001) studied financial reforms in India and China. These countries were selected due to their similar development patterns. He argued that after banking sector reforms India was able to overcome the problems of bad debts by allowing new entrant in the market. While China tried to restore its state owned banks by way of asset management institutions.

Galbis (1995) examined financial sector reforms in eight developing countries, where financial sector reforms were implemented along with other structural reforms. The aim of these reforms was to improve monetary control and provide healthy and sound financial system. He recommended that all countries should continue with policies to improve monetary policy and should strengthen prudential regulation and supervision, privatize and restructure the financial institutions.

Research on the macro level efficiency of the banks has gained some attentions, but most of the researchers preferred European region, hence ignoring the south Asian region (Brown and Skully, 2003). However, Shafique (2007) analyzed impact of banking sector reforms on economic growth of Pakistan and explored positive relationship between banking reforms and economic growth.

3. THEORETICAL FRAMEWORK

Deposits are the sum of money that the people lend to banks for the purpose of earning interest. Banks are totally depending on deposits, almost whole banking function is with deposits, without deposits banks will not able to lend or invest anywhere. Current deposits, call deposits, saving deposits, fixed deposits are different kinds of deposits. The amount bank gives as loan and releasing in other forms to its clients is called lending.

While looking at both savings and consumption behavior it was also observed that consumption is increasing more rapidly than savings so when there is more consumption it will lead to relatively low savings and vice versa. The lowest financial savings rate is attributable to a number of factors including increased uncertainty due to prolonged political transition and sharp deterioration of the macroeconomic environment. Specifically, visible slowdown in economic growth and strong inflationary pressures in the economy contributed to low financial savings.

It has been explored by various economists that high rate of inflation have unfavorable consequences for economic growth. Barro (1995) argued that inflation has a negative impact on economic growth. He also explored a negative relationship of inflation with deposits, lending, and savings. Inflation results in increase prices of commodities which leads diminished savings and decreasing the deposits. Low deposits lead to less lending and that results in less investments and hence leads to slow economic growth.

Following is the mathematical representation of the model estimated in this study:

$$\ln(Y) = \beta_0 + \beta_1 \ln(INF) + \beta_2 \ln(NS) + \beta_3 \ln(DE) + \beta_4 \ln(LEN) + \beta_5 \ln(R) + u \quad (1)$$

Where, Y, INF, NS, DE, LEN, R and u represent gross domestic product (GDP), inflation, national savings, banks deposits, banks lending, real interest rate and error term, respectively.

METHODOLOGY

Secondary data was collected from annual reports and statistical hand book of central bank, and economic survey of Pakistan, for the variables for a period of 1973 – 2008 (N=36, for each variable). Ordinary Least Square (OLS by Carl Friedrich Gauss) is used to estimate the model, because under certain assumptions namely, the equation to be estimated; is linear in parameters, is non stochastic, has zero mean value, possesses equal variance of distribution etc. it becomes a powerful method of regression analysis. Log (LN) of deposits, lending, and savings was taken and regression analysis was applied.

4. ESTIMATION AND RESULTS

Table-1 shows the results of Unit Root, Dickey-Fuller (DF) and Augmented Dickey-Fully tests, which were applied for the stationarity of data.

According to results of regression analysis as provide in Table-2, inflation, interest rate, lending, saving and deposits explain 88.5 % variation in the economic growth (i.e. $R^2 = 0.885$).

Table-1: Unit Root Test conducted for Stationarity of Data

Variables	Level			1 st Difference		
	Lags	Intercept	Trend & Intercepts	Lags	Intercept	Trend & Intercept
Y	0	-4.66979* (2.02249)	-6.391465* (3.5670)	1	-7.178729* (-2.9705)	-7.027458* (-3.5796)
INF	0	-0.368259* (-2.9591)	-3.638398* (-3.5614)	1	-8.43125* (2.218348)	-5.200621* (-3.5731)
R	0	-3.974499* (2.07004)	1.114639* (-3.5614)	1	-3.817422* (-2.9665)	-4.089002* (-3.5731)
LEN	0	-2.812309* (-2.9591)	-2.949084* (-3.5614)	1	-4.277648 (1.98871)	-3.745340* (-3.5731)
NS	0	-10.11490* (-2.9627)	-9.926192* (-3.5670)	1	-5.98349* (2.006403)	-4.432884* (-3.5796)
DE	0	-4.254405* (-2.9627)	-5.511926* (-3.5670)	1	-3.43208* (2.070924)	-5.930496* (-3.5796)

* The figures given in brackets are table value of Unit Root Test at 5% level of significance.

Inflation affects economic growth adversely .i.e. a unit increase in inflation decreases GDP by 1.78681 units (i.e. $\beta_1 = -1.7868$, $p = 0.0195$). Interest rate has a significant negative impact on economic growth ($\beta_5 = -2.9019$, $p = 0.0073$). All variables have significant impact (i.e. at significance level of 5%) on economic growth except lending. If inflation goes up the lender will also increase interest rate to save the time value of money. There is very strong positive relationship between economic growth with deposits, lending, interest rate spread and savings. Inflation and interest rates and are correlated to each other but the results are not significant in this study ($r = 0.084$, $p = 0.626$).

Table-2: Estimation of Model Using OLS (Sample 1973-2008) (Dependent Variable GDP Growth)

Variables	Coefficient	t-Statistic	Prob.	R ²	DW	Prob. (F-statistic)
C	-0.5626 *	2.1230	0.0431	0.885	2.2523	2.7274
INF	-1.7868 *	2.7594	0.0195			
NS	3.3881 *	2.1028	0.0443			
DE	4.0068 *	2.5115	0.0178			
LEN	0.4636	1.2535	0.2582			
R	-2.9019 *	2.8101	0.0073			

* 5% level of significance

National savings and deposits have positive and significant impact on the economic growth, as 1 unit increase in NS and DE will increase GDP by 3.3881 and 4.0068 units, respectively (i.e. $\beta_2 = 3.3881$, $p = 0.0443$ & $\beta_3 = 4.0068$, $p = 0.0178$). Economic growth is significantly affected in a positive way by an

increase in deposits, lending and savings by lowering the interest rate on lending and by increasing interest on deposits.

According to the correlation matrix provided in Table-3, all the variables are significantly correlated with each other (i.e. at 1% level of significance) correlation between inflation and interest rates which has $p = 0.026$. All the variables are positively correlated with economic growth with the exception of inflation and interest rate. They both have negative relationship with economic growth (i.e. $r = -0.428$, $p = 0.009$ and $r = -0.583$, $p = 0.000$, respectively).

Table-3: Correlations Matrix

	GDP	Deposits	Lending	Interest Rate	Savings	Inflation
GDP	1	.898(**)	.907(**)	-.583(**)	.899(**)	-.428(**)
Deposits	.898(**)	1	.999(**)	-.554(**)	.979(**)	-.495(**)
Lending	.907(**)	.999(**)	1	.545(**)	.977(**)	-.492(**)
Interest Rate	-.583(**)	-.554(**)	.545(**)	1	.494(**)	.084
Savings	.899(**)	.979(**)	.977(**)	.494(**)	1	-.552(**)
Inflation	-.428(**)	-.495(**)	-.492(**)	.084	-.552(**)	1
	<u>.009</u>	<u>.003</u>	<u>.002</u>	<u>.626</u>	<u>.000</u>	<u>.</u>

** Significant at 1 % level.

Results showed that economic growth and all the independent variables except inflation and real interest rate are significantly associated. Due to inflation the prices of commodities increases and that results in reduction in savings. Where there is reduction in savings it leads to reduce in the level of investment and that adversely affects economic growth.

5. CONCLUSION

Before the 1990's public sector banks dominated the financial sector. At that time, one of the reasons behind slow economic growth was interest rate ceiling, requirement of high reserves and restrictions in the credit allocation. But after the reforms the structure of banking system has changed tremendously. Local private banks were in operation and government privatized the nationalized banks. Results showed positive relationship between economic growth with deposits, lending and savings, and negative relationship with inflation and interest rate. Better performing banking sector is now helping Pakistan to achieve higher growth rates.

Financial reforms have a significant impact on the banking sector and economic growth. Also reforms change the bureaucratic culture of the banks. Reforms overcome the problems of overstaffing and poor customer service. Inflation significantly affects the economic development. The mechanism for the economic growth from the financial sector is; less inflation leads to more savings and high interest rate on deposits will leads to more lending, higher the lending will results in more investment and more investment leads to more economic growth.

6. RECOMMENDATIONS

For slow economic growth interest rate ceiling was one of the major factors, so interest rate ceiling should be removed permanently as empirically demonstrated in this study. For balanced credit ratios between the government and private sector, interest rate must be market oriented.

There should be suitable interest rates to generate deposits which can be easily utilized to fulfill the requirement of investments and therefore people have the opportunity to deposit their money with the banks instead of investing anywhere else. Government should take concrete measures to control the inflation for the betterment of economic development, by using monetary policy. The central bank should decrease money supply to decrease inflation.

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