

Do Economic Reforms Spur Bancarisation Rate in the CEMAC Region? Empirical Analysis

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Abstract:

The aim of this paper is to empirically analyze the effect of the economic reforms on the bancarisation rate in the Central Africa Economic and Monetary Community (CEMAC). Data of six countries from the sub-region from 2001 to 2011 was used in a generalized method of moment (GMM) modeling framework. The following results are obtained: Financial liberalization has facilitated the opening of bank accounts. The opening of bank accounts demand is an increasing function of Gross Domestic Product per capita. The literacy rate contributes to the improvement of financial and banking services. Public and private infrastructures promote decentralization and delocalization of the banking network to smaller cities and rural areas. Institutional reforms work best for increasing the bancarisation rate where financial and banking activities are weak. So, the economic policy to be implemented is to continue the economic and financial reforms and ameliorate the quality of the institutions in the CEMAC region.

Keywords: bancarisation rate, economic reforms, financial liberalization, GMM, CEMAC.

JEL Classifications: C2, F65, G21, O16

1. Introduction

Economic reforms processes and growing in the bancarisation rate is a contemporary economic and financial phenomenon debatable in economic, finance and public spheres. Analyzing the mechanisms and the conditions of financing economy has grown considerably since the work of Gurley and Shaw (1960), which demonstrates the importance of finance in the process of economic growth. Economic and financial reforms have become a more determining dimension of the productive development for African countries. At the same time, this has being closely link to financial liberalization. Numerous contributions on this theme can be decomposed in two main facets: the first one is the tradition of normative liberalism based on the efficiency of the market against the state intervention; the second one is more specific to the development sphere. The seminal work of McKinnon (1973) and Shaw (1973) is based on financial repression and on the financial deepening.

Financial repression refers to the notion that a set of government regulations, laws, and other non-market restrictions prevent the financial intermediaries of an economy from functioning at their full capacity. The economic policies that cause financial repression in Central African countries include: interest rate ceilings, liquidity ratio requirements, high bank reserve requirements, and capital controls. Restrictions on market entry into the financial sector, credit ceilings or restrictions on directions of credit allocation, and government ownership or domination of banks are also the characteristics of financial repression. Financial deepening is referring to the increased provision of financial services with a wider choice of services geared to all levels of society. It also refers to the macro effects of financial deepening on the larger economy. Financial deepening generally means an increased ratio of

money supply to gross domestic product or some price index. It is related to liquid money. The more liquid money is available in an economy, the more opportunities exist for continued growth. But the current liquidity of the African financial cooperation region (CFA zone) is debatable nowadays. Financial deepening may also be defined as an increase in the size of the financial system and in its role and pervasiveness in the economy. From a monetary policy perspective, the growing diversification of firms' and households' portfolios is especially relevant, as they are more and more affected by the developments in financial markets.

Economic and financial reforms now underway in the CEMAC countries have as their strategic aim the integration of the national economy with the world economy. Integration means not only increased market-based trade and financial flows, but also institutional harmonization with regard to financial policy, trade policy, legal codes, tax systems, ownership patterns, and other regulatory arrangements (Sachs and Warner, 1995). Economic reforms indicate a country necessary structural adjustment to external economic and financial events. These reforms include the function of country's spending to the level parallel to their incomes and thereby reducing fiscal deficits. This requires gradual reduction in import and increase in export. These adjustments also require market change in order to make economy flexible. Economic and financial reforms were observed in various directions: institutional reforms which strategy objective is to develop an effective, professional, honest and transparent public service committed to the safeguarding of democratic principles. Anticorruption measures which the core objectives is to fight against corruption. The anticorruption measures administered in the CEMAC countries are aimed at reforming law-enforcement and judicial systems, as well as the fiscal, administrative and public service sectors. Significant payroll raises for public servants employed in the ministries were carried out within a short time-frame in order to help fight economic crime and corruption. Liberal economic reform is one of the main goals of the economic policy of the CEMAC countries is to promote the development of private entrepreneurship by creating a favorable business climate. Economic and financial reforms are aimed at ensuring economic growth based on economic and financial liberalization, development of the private sector and extension of financial and banking services.

Officially defined as the proportion of the population with access to financial and banking services, bancarisation rate is a good measure of growth of the financial sector and common shorthand for the way we capture how inclusive a financial system is. Many institutions in Central African countries insist that they are trailblazers in boosting financial and banking inclusiveness, and point to their growth plans as evidence. Economic and finance theories do suggest that sustainable higher expected growth and return on capital of the financial sector should be backed by a balance of growth in client base and up/cross-sell of current and new products to existing clients. The level of a country's bancarisation is generally a function of its level of economic development. More developed a country is, the higher the level of banking penetration is high and vice versa. Thus France, Germany and the United States for example, have a bancarisation rate over than 90%, while Yemen, the Central African Republic and Niger have bancarisation rate less than 10% rate in 2007. Why this differential in the level of bancarisation rate? Indeed, Schumpeter (1912) has already established the link between the financial sector and the economic growth through technological innovation.

Financial liberalization that took place in the CEMAC countries in the 1980s and 1990s was part of the general move toward giving financial markets a greater role in development. It was also a reaction to several factors specific to finance named: the costs, corruption, and inefficiencies associated with using finance as an instrument of state-led development; a desire for more financial resources; citizens' demands for better finance and

lower implicit taxes and subsidies; and the pressures exerted on repressed financial systems by greater international trade and better communications.

What are the main obstacles to efficient financial markets in many Central African countries? First, an inadequate regulatory framework which makes for a highly concentrated banking sector, very low intermediation rates, and inefficient collateral registry systems that further impede businesses and individuals' access to credit. Second, a banking sector that fails to exercise its role of intermediation due to very high interest rate spreads which make credit expensive. Moreover, deposits are poorly remunerated. Third, an underdeveloped capital markets that remain narrow and illiquid, thereby limiting access to long-term financing and hindering countries' capacities for local debt financing. And last, a lack of innovative financial instruments, notably those geared towards small and medium enterprises, which constitute a majority of the businesses in Africa but remain too often confined to the informal sector due to inadequate financial services.

This paper is based on the theories of financial development, financial deepening and financial liberalization. The literature related on the relationship between financial development and growth is vast. It dates back to Schumpeter (1912), Gurley and Shaw (1960), McKinnon (1973), Shaw (1973), Fry (1982) and, King and Levine (1993). The aim of this paper is to empirically analyze the effect of the economic reforms on the bancarisation rate in the Central Africa Economic and Monetary Community. The paper addresses the following research question: is the relationship between economic reforms and bancarisation rate positive or negative? To answer this question the generalized method of moment (GMM) is used. This paper presents the first careful empirical estimates of the impact of the economic and financial reforms on the bancarisation rate in Central Africa Economic and Monetary Community (CEMAC) countries. The content of this paper is as follow: Section 2 reviews the related literature; section 3 presents the methodology: variables selection, econometric model and data source. Section 4 presents and discusses the empirical results; and the last section concludes.

2. Literature Review

A number of papers have examining the effect of stock market liberalization on market integration (Errunza et al., 1992; Buckberg, 1995; Bekaert, 1995; and Bekaert and Harvey, 1995). However, none of these papers estimate the valuation impact of stock market liberalization (Stiglitz, 2000). In the literature, McKinnon (1973) and Shaw (1973) argue that the abolition of financial repression and the liberalization of the financial system are essential for the development of economic growth. The same idea was defended by Kapur (1976), Mathieson (1980), Fry (1995) and Gablis (1997). Contrary to the view of McKinnon and Shaw, Buffie (1984), Taylor (1983) and Van Wijnbergen (1983) have developed an alternative idea. According to them, the financial development decreases with real credit supply and prevents the growth of the economy. According to Buffie (1984), if we allow direct intervention in markets, financial liberalization is a dangerous business. The other point of view supported by Patrick (1966) shows that financial development is very important for economic growth, but the relationship evolves.

During the growth process, the offer was a key driver of the development of the financial sector will be smaller and will be replaced by the application according to Patrick (1966). The financial repression that prevailed in developing and transition countries in the 1970s and 1980s reflected a mix of state-led development. The financial system was treated as an instrument of the treasury: governments allocated credit at below market interest rates, used monetary policy instruments and state-guaranteed external borrowing to ensure supplies of credit for themselves and public sector firms, and directed part of the resources that were

left to sectors they favored. Eboué (1990) analyses the macroeconomic effect of the financial repression in the developing countries.

What about the efficacy of reforms (Iyigun and Rodrik, 2004)? In theory, the arguments for economic and financial reforms towards liberalization appear uncontroversial because based on exacting assumptions. Economic and financial globalization has the potential to raise economic growth and lower consumption volatility. Measuring financial and banking liberalization, Demirgüç-Kunt and Detragiache (1998) suggests that crises tend to erupt when the macroeconomic environment is weak, particularly when growth is low and inflation is high. Also, high real interest rates are clearly associated with systemic banking sector problems, and there is some evidence that vulnerability to balance of payments crises has played a role. Countries with an explicit deposit insurance scheme were particularly at risk, as were countries with weak law enforcement. Kaminsky and Schmukler (2003) analyzes the chronology of bank liberalization taking into account regulations on deposit interest rates, lending interest rates, allocation of credit, foreign currency deposits and distinguishes the degree of openness: repressed, partially liberalized, and fully liberalized.

Financial deepening is a multi-faceted process that involves the interaction of a number of markets (primary, secondary and retail), instruments (deposits, loans, foreign exchange, bonds and debt securities), and stakeholders (banks, contractual savings institutions, companies). It can be seen as a process in which institutions and financial markets: facilitate goods and services exchange (payment services for example); mobilize and pool savings of a large number of investors; acquire and process information about the companies and the potential investment projects and therefore allocating public savings to the most productive uses; follow investments and exert corporate governance; and diversify and reduce liquidity risk and inter-temporal risk (Levine, 2005; King and Levine, 1993). In other words, financial deepening can be understood as a process by which the range of products and players widens, deadlines extend and services play a role in risk coverage and diversification.

Kiyotaki and Moore (2004) develop a model of financial deepening, based on the distinction between limited bilateral commitment and limited multilateral commitment. The authors explore the effects of secular changes in financial depth on investment and output; on intermediation and interest rates; on the long run velocities of circulation of different monetary instruments, and the use of outside money; on the patterns of saving and trade. Three stages of financial development are identified: a cash-based economy, an economy with specialized financial markets and an economy with gross financial positions. Although financial deepening concepts were brought into salience with the seminal work of McKinnon (1973) and Shaw (1973), these ideas can be found in the Keynesian theories. In the Keynesian theory, financial deepening occurs due to an expansion in government expenditure. In order to reach full employment, the government should inject money into the economy by increasing government expenditure. An increase in government expenditure increases aggregate demand and income, thereby raising demand for money.

The concept of *too big to fail* has not been with us forever. In fact, it only gradually entered into the economic and financial vocabulary in mid-1980's and became more frequently used in 1990's after crises, restructuration and liberalization of banking industry both in the United State and in Europe. The context of the term became apparent following a series of domestic and cross-border bank mergers, increasing popularity of economic reforms and financial innovations in the banking industry. Following the innovative changes and mutations, the rapid growth of mobile phones usage with E-banking can bridge the economic transformation and increase the bancarisation rate. Tchouassi (2012) has discussed how mobile phones can be used to extend banking services to the unbanked, poor and vulnerable population. Regression analysis was applied to identify the effects of mobile phones on

bancarisation rate and, on poor and vulnerable populations. Mobile phone is statistically significant. This shows that the level of the mobile phone utilization in an economy at any given time impact the bancarisation rate. Mobile phone is a specific electronic financial channel using in the African countries to bank the unbanked. The mobile phone presents a great opportunity for the provision of financial services to the unbanked.

Tchouassi and Tamchap (2013) evaluate the the link between microfinance and banking reforms and bancarisation rate in the Central African State Bank (BEAC zone). The authors used statistical analysis and econometric analysis to verify the relationship. They conclude that the application of the regulation on microfinance in the CEMAC countries leads to an improvement in the bancarisation level. The bancarisation rate would be reduced further if the postal network and even mobile phone banking (m-banking) are introduced in the calculations.

In reforming banking regulation (Senbet and Otchere, 2006; Senbet, 2009), indeed the current crisis provides an opportunity to rethink about the regulatory schemes in a comprehensive way. What is brought home is the build-up of risk exposures not only by banks but “shadow” banks stemming from regulatory gaps and distorted incentives of decision-makers in the banking and the overall financial system. Although these issues are now getting global attention, Central African countries should also put in place the appropriate measures and methodology for its moving-forward so as to reduce both the frequency of future crises and their potential severity.

3. Methodology: Variable Selections, Econometric Model and Data Source

3.1. Variable Selections

We start by selecting variables that are commonly used in bancarisation equations. These variables include financial, physical and human capital components in one hand, and institutional, regulation components in the other hand. The dependent variable is bancarisation rate. Bancarisation rate is the penetration of banking services in a population. Banked population estimated to 20% means that 80% of this population has not (yet) access to financial and banking services, either of its own making (refusal) or because of its financial situation is not attractive for banking. The banking penetration rate in Sub-Saharan Africa countries has hovered around 4% - 10% over the last two decades. Within countries in the region, levels of banking climb sharply with income and education, with over 40% of people with tertiary education who have bank accounts, while only just over 3% of those with primary or no education do. There are a number of channels through which economic and financial reforms may impact bancarisation rate. These channels may be assimilating to the following explicative variables: Gross Domestic Product (GDP) per capita, Inflation, Infrastructure, Literacy rate, Institution and Financial Liberalization.

GDP per capita: GDP per capita is an approximation of the value of good produced per person in the country, equal to the country’s GDP divided by the total number of people in the country. Up until now, all measures used above were normalized to the level of nominal GDP and showing how much excess growth financial institutions absorbed over certain time. However, it is difficult to assess if this is too much or too little when no benchmark is available. Economic research in financial deepening is suggesting that financial depth has macroeconomic consequences. For instance, Khan et al. (2001) finds links of financial deepening and inflation, and as discussed earlier, Klein and Olivei (1999) find positive effects of financial depth for economic growth.

INFLATION: It is a variation rate of the consumer Price Index. Inflation is a rise in consumer prices, increasing the cost of living. The inflation rate is one of the most important

economic forces consistently weighing on the value of a nation's currency. The variable inflation is measured as the rate of change of the deflator of the GDP. Inflation is synonymous of economic instability. It distorts information to economic agents and discourages financial intermediation. In this paper inflation captures the macroeconomic stability of the region.

INFRASTRUCTURE: Infrastructure is a set of interconnected structural elements that provide the framework for supporting the entire development of the structure. Economic infrastructures are internal facilities of a country that make business activity possible, such as communication, transportation, distribution networks, financial institutions, markets and energy supply systems. The variable 'infrastructure' represents in this paper a proportion of telephonic subscribers and consumers. This proportion is supposed to use mobile phone banking to extend banking services.

INSTITUTION: Rule of the law is an indicator of governance constructed by the World Bank. It includes many indicators measuring confidence and the respect of the rule and the law in the society. Its value varies between -2.5 and 2.5. An increasing in the value of this indicator shows a favorable institutional environment, respectively. This variable is very important in the bancarisation analysis in the CEMAC zone.

LITERACY RATE: It is one of the components of human capital (Becker, 1964). Romer (1990) refers to the human capital as a fundamental source of economic productivity. The literacy rate is the percentage of people with the ability to read and to write. In this paper, the literacy rate represents the proportion of the adult populations aged 15 years and over that is literate.

FINANCIAL LIBERALIZATION: Financial liberalization usually involves the domestic banking sector (McKinnon 1973; Shaw 1973; Henry 2003), stock market, and national capital account. Financial liberalization refers to reduction of any sort of regulations on the financial industry of a given country. The financial liberalization index is an indicator elaborated by the International Monetary Fund to evaluate financial deregulation. It is an aggregation of seven indicators taking the value 0 (for regulated), 1, 2 et 3 (for deregulated) which represented: credit control, control of the interest rate, barriers at the entry, banking supervision, privatization, change control and regulation of the financial market. The economic and financial reforms have gone beyond the interest rate liberalization that has been recommended in 1980s and 1990s by the *Washington Consensus*. To varying degrees, African governments also have allowed the use of foreign currency instruments and opened up capital accounts. Domestic markets are developed in central bank and government debt, and international markets are expanded in government and private bonds. Capital markets are developed, but less rapidly, and are most successful in the larger, already rapidly growing. Financial liberalization covers two major types of economic policies: increasing the openness of the financial system and relaxing government control on banks.

3.2. Econometric Model

From Hartsenko (2004) and Tchouassi (2012), applying regression approach to show the effects of individual characteristics of populations, mobile phone is a specific innovative electronic financial instrument for unbanking. From the review of the previous literature, a new modified model is adopted. The econometric model has the following form:

$$(1)$$

Where, Tb is the bancarisation rate, representing the matrix of the dependent variable. R_{it} is the matrix of economic reforms intended to capture the country i at time t and X_{it} is the matrix of explanatory variables of country i at time t . Countries with basic infrastructure (transport,

communication, energy, among others), cleared and cleaned legal and contractual framework, competitive and transparent banking sector and a dominance of state-owned banks have fewer barriers to access to financial and banking services. e_{it} is the error or residual explanation for country i at time t and μ_i is an individual consistency designed to capture the country effect. α and β are parameter to be estimate. The model to be estimate is:

$$Bancarisation\ rate_{it} = \beta_0 + \beta_1 GDPpc_{it} + \beta_2 INFLATION_{it} + \beta_3 INFRASTRUTURE_{it} + \beta_4 INSTITUTION_{it} + \beta_5 LITERACYRATE_{it} + \beta_6 FINANCIALLIBERALIZATION_{it} + e_{it} \quad (2)$$

Where: *Bancarisation rate* is the dependent variable, *GDPpc*, *INFLATION*, *INFRASTRUTURE*, *INSTITUTION*, *LITERACYRATE* and *FINANCIALLIBERALIZATION* are independent variables. β_0 is the constant term. $\beta_1, \beta_2, \beta_3, \beta_4, \beta_5$ and β_6 are coefficients to be estimate.

The generalized method of moments (GMM) is used to estimating parameters of the empirical model. Generalized method of moments was introduced by Pearson (1894) but developed by Hansen (1982) as a generalization of the method of moments. Generalized method of moments refers to a class of estimators which are constructed from exploiting the sample moment counterparts of population moment conditions (some-times known as orthogonality conditions) of the data generating model. GMM estimators have become widely used, for the following reasons: GMM estimators have large sample properties that are easy to characterize in ways that facilitate comparison. In practice, researchers find it useful that GMM estimators can be constructed without specifying the full data generating process, which would be required to write down the maximum likelihood estimator (Hansen, 2007). This is why this method is used in this paper.

3.3. Data Sources

Data are from the African statistical yearbook of the African Development Bank (AfDB, 2013) and the international financial statistics of the International Monetary Fund for the period 2001-2011. Cameroon, Chad, Central African Republic, Congo Republic, Equatorial Guinea, Gabon are six countries of the CEMAC region.

4. Empirical Results and Discussions

Using generalized method of moment (GMM) estimators, the empirical results of the estimation are presented in the Table below.

					GMM, Generalized Moment Method	
					Group variable: country	
					Time variable: annual	
Variables	Coef	Std Err	z	P> z	[95% Conf. Interval]	
BANKRATE	.0824716	.1138302	0.72	0.469	-.1406314	.3055746
GDP per capita	.0289449	.213649	0.14	0.892	-.3897994	.4476892
INFLATION	-.3425112	.0976714	-3.51	0.000	-.5339436	-.1510788
INFRASTRUC	12.30438	5.337481	2.31	0.021	1.843109	22.76565
LITERRATE	.3666988	.1612498	2.27	0.023	.0506549	.6827426
INSTITUTION	2.647848	7.25124	0.37	0.715	-11.56432	16.86002
FINLIBE	.2250393	.084727	2.66	0.008	.0589775	.391101

_CONS	-18.28407	18.10967	-1.01	0.313	-53.77837	17.21023
					Wald chi2(7) =	44.27
					Prob > chi2 =	0.0000

From the Table, the coefficient (.225) associated with financial liberalization is positive and significant. This show banking reforms in the 1990s have contributed to banking populations in the CEMAC countries. In other words, financial liberalization has facilitated the opening of bank accounts (checking accounts and savings accounts) by the populations in the countries of the Central African Economic and Monetary Community.

GDP per capita has a coefficient (.028) positive and significant. This means that the opening of bank accounts demand is an increasing function of GDP per capita. More per capita GDP increases more people tend to access to financial and banking services. The coefficient associated to the literacy rate is equal to .366. This means that the literacy rate contributes to the improvement of financial and banking services. More male and female populations are educated and trained, the better they trust the financial and banking system, and the self-exclusion rate is dropped.

The coefficient related to infrastructure is positive. This can be explaining by the fact that public and private infrastructures, including telecommunications, promote decentralization and delocalization of the banking network to smaller cities and rural areas in Central African countries. Increase in expenditures in innovative electronic communications infrastructures thus making them the offer of financial and banking services available in real time. Macroeconomic stability captured by the inflation rate has a positive and significant effect on the bancarisation rate of the CEMAC countries. Low and stable inflation indicates healthy demand in financial and banking services, and the marketplace. However, high or unstable inflation threaten growth. High inflation alters the value of long term contracts. Volatile inflation creates uncertainty in the market place, increasing risk premiums. Since many tax rates are adjusted by average inflation, volatile inflation can severely alter government revenues and individual liabilities.

Institutional reforms positively influence bancarisation rate. The associated coefficient is equal to 2.647. To ameliorate the unbanked rate in CEMAC region, rules and laws need to be change or readapted. National, regional regulation need to be revised and reformed according to international financial and banking regulation. Institutional reforms work best for banking the unbanking in settings where financial and banking activities are weak. This is in line with Iyigun and Rodrik (2004) works related on the efficacy of the reforms.

5. Conclusion and recommendation of economic policy

Financial and banking services industries have undergone many changes and transformation in the past two decades due to deregulation, technological advances and globalization. We argued in this paper that economic reforms spur bancarisation rate in the CEMAC region. High level of innovative infrastructures, high levels of literacy among the populations, efficacy in the economic and financial reforms processes, and high rate of economic growth can accelerated the penetration of financial and banking services in the CEMAC geographical areas. True these channels, the bancarisation rate should increase in the six countries of the region.

What economic policies can be implemented to establish well functioning and inclusive financial and banking sector for growth? First, address regulatory bottlenecks by putting in place and enforcing rules and laws aimed at fostering confidence in investors and banks through the creation of credit bureaus that oversee repayment records. Second, reorganize the financial and banking system through opening the sector to competition,

reviewing prudential ratios and putting in place innovative savings and borrowing instruments adapted to local needs. Third, develop capital markets and particularly bond markets for long term financing needs by setting up adequate guarantee schemes against currency and other types of risks. And last, bridge the gap between the informal and formal financial sectors by formalizing microfinance institutions to help them scale up activities while developing financial products geared towards small and medium enterprises. Innovative financial tools that use technology such as mobile banking can also help leapfrog traditional finance services and reach a larger population for bancarisation rate amelioration.

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