GOVERNMENT EXPENDITURES AND ECONOMIC GROWTH IN JORDAN

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Abstract — The objective of this paper is to investigate the impact of public expenditures on economic growth using a time series data on Jordan for the period 1990-2006 using for this purpose the different regression models. The study found that the government expenditure at the aggregate level has a positive impact on the growth of GDP which is compatible with the Keynesian’s theory; it was also found that the interest payment is proven to have no influence on GDP growth.

Keywords: Public Expenditure, Economic Growth

I. INTRODUCTION

Much attention has been given to the remarkable economic success of the newly developed countries, this success is often attributed to the government role of these countries, the dominant view among economists as well as public policy makers is that the government can play a very important role in economic development, as the fiscal policy is an important instrument because it enables the government to intervene in the economy. This intervention considered a short-run policy to control, the fluctuation in the real gross domestic product and unemployment rate. In a context of simple Keynesian model, an expansionary fiscal policy aims to stimulate the economy can be done either by an increase in the government expenditure or by a tax cut or both. But, if this policy failed to achieve the desired growth rate then we expect the government will not get the desired tax revenue collection to finance the government spending in the next period.

In all economists who discussed the relation between public expenditures and economic growth Keynes was among the most noted with his apparently contrasting viewpoint on this relation. Keynes regards public expenditures as an exogenous factor which can be utilized as a policy instruments promote economic growth.

However, the impact government expenditure on economic growth is not without controversy in the empirical literature. On the one hand, Singh and Sahni (1984), Ram (1986), and Holmes and Hutton (1990) conclude that government expansion has a positive effect on economic growth. On the other hand, Landau (1983, 1986), Barth, Keleher, and Russek (1990) find the opposite is true that government expansion tends to exert a negative impact on economic growth for many developed and less-developed countries. In another study, Ram (1986) examines 63 developed and developing countries but detects no consistent causal pattern between government expenditure and economic.

Explanations offered to account for these varied and conflicting results can broadly be divided into two categories. According to the first, it is the differences in the set of conditioning variables and initial conditions across studies that are responsible for the lack of consensus in the results (Levine and Renelt 1992). In contrast, the second category consists of a handful of studies (Helms 1985; Mofidi and Stone 1990; Kneller et al. 1999) that suggest this variation in the results, in part at least, reflects the wide spread tendency among researchers to ignore the implications of the government budget constraint for their regressions. In particular, the latter view emphasizes the need to consider both the sources and the uses of funds simultaneously for a meaningful evaluation of the effects of taxes or expenditures on economic. (Niloy Bose)

The purpose of this paper is to examine the relation between government expenditure and economic growth in Jordan during the period 1990-2006; the researcher choose one single country with an attempt to make a more in-depth investigation and analysis. The country of Jordan is selected for this study because it is well-documented in the literature, that the government of Jordan has played an important role in its successful economic development, despite the shortage of natural resources in the country. In addition, the Jordanian case is a special one not appropriate for generalized conclusions relating to government spending and economic growth (e.g., the kingdom of Jordan economy was deeply impacted by a major wars in the region, lost large part of its land in 1967 with Israel).

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II. MATERIALS AND METHODS

This study attempts to analyze the impact of public expenditures in economic growth in Jordan during the period 1990-2006 using for this purpose different statistical techniques.

Sources of data: The study is based on the following:
2. Central Bank of Jordan Reports.
3. The General Budget Laws.

III. OBJECTIVES OF THE STUDY:

This paper aims to analyze:

IV. REVIEW OF THE LITERATURE

The theoretical relationship between government expenditure and economic growth is well-documented in the literature and therefore it will only be briefly discussed here. There are two major divergent theories in economics concerning the relationship between government expenditure and economic growth. While Keynesian macroeconomic theory has generally assumed that increased government expenditure tends to lead to high aggregate demand and in turn, rapid economic growth, Wagnerian theory, however, leans toward the opposite view. The latter contends that an increase in national income causes more government expenditure.

A number of studies focused on the relation between government expenditure and economic growth. Nevertheless, to pertain to the topic of this paper, we will only focus on the literatures that probe the relationship. Among the literatures, some of the studies are the case studies which focus on specific country while others target on the cross-countries research by studying panel dataset. The results varied from one study to another.

Marta Pascual and Santiago Álvarez-García studied the impact of government spending and economic growth in the European Union countries and the results obtained based on regressions used and panel techniques suggested that government spending is positively related with economic growth in the European Union countries.

Chih-Hung Liu and others (2008) investigated the causal relationship between GDP and public expenditures for US federal government covering the time series data 1974-2002, they found in this study that total expenditures does cause the growth of GDP, which is compatible with the Keynesian's theory, but the growth of GDP does not cause the increase in total public expenditures which is working against Wagner's law.

Jackson and Fethi (1998) target on the causal relationship between economic growth and government spending in Northern Cyprus by using the time series data from 1977 to 1996. They also found a mixed evidence on their empirical results, i.e., some results support Wagner's Law while others verify Keynesian's theory.

Benjamin and Tin Wei Lai (1997) in their study the government expenditures and economic growth in South Korea concluded that the government has played an important role in economic development of Korea.

John Loizides and Vamvoukas (2005) found that in all countries public expenditures causes growth in national income either in the short or the long run.

Niloy Bose, M Emranul Haque, and Denise R Osborn (2003) carried out a study titled "Public Expenditure and Economic Growth: A Disaggregated Analysis for Developing Countries" this study found out that the share of government capital expenditure in GDP is positively and significantly correlated with economic growth, but current expenditure is insignificant.

V. GOVERNMENT EXPENDITURES IN JORDAN

Jordan is small country with a small population and a few natural resources. In the late 1980s, Jordan was compelled to import not only many capital and consumer goods but also such vital commodities as fuel and food, the Jordanian economy flourished in the 1970s as the gross domestic product (GDP) enjoyed double-digit growth. The economy continued to fare well in the early 1980s, despite a recessionary regional environment. Indeed, by the late 1980s, Jordanians had become measurably more affluent than many of their Arab neighbors. The 2005 per capita GDP of approximately US$2,533 placed Jordan's citizens well within the world's upper-middle income bracket.

Economic prosperity rested on three primary bases. Jordan's status as the world's third largest producer of phosphates ensured a steady--if relatively modest--flow of export income that offset some of its high import bills. More important, Jordan received billions of dollars of invisible or unearned income in the form of inflows of foreign aid and remittances from expatriates. These financial inflows permitted domestic consumption to outpace production and caused the gross national product (GNP) to exceed the GDP. In the late 1970s and early 1980s, GNP exceeded GDP by 10 percent to 25 percent. High financial inflows from the mid-1970s to the mid-1980s allowed Jordan to maintain a low current account deficit; in some years it registered a current account surplus, without much external borrowing and despite trade and budget deficits. Jordan's economy, therefore, demonstrated many of the characteristics of wealthier and more technologically advanced rentier economies. Jordan also capitalized on its strategic geographic location, its educated work force, and its free enterprise economy to become a regional transit point for exports and imports between Western Europe and the Middle East. Because of these factors, it also became a magnet for foreign direct investment.

The three main parts, besides interest payment, of the government expenditures of Jordan are recurring, capital and transfers. Transfers payments are the reallocation of resources from the public sector to the private sector, e.g. pension system, business subsidies food and fuel subsidies.
Recurring expenditures (government consumption) is for instance, salaries paid to government employees and the purchase of goods and services. Capital expenditures (government investment) are concerned with acquiring and constructing long term assets such as roads, building, and machinery. While interest payments are mainly interest on the government internal and external debt, but also interest subsidies for loans given to certain sectors. Government revenues are made up from internal and external sources. Internal sources are mainly made of income and sales taxes, while external sources are loans and assistance. Figure No-1 shows government of Jordan expenditures by economic category for the financial year 2005.

Recurring expenditures accounted for 44.56 percent of total government expenditures in Jordan in 1990 while in 2006 declined to 43 percent, capital expenditures increased from 18.52 percent in 1990 to 20.5 percent in 2006 similarly transfer expenditures rose to 28.5 percent in 2006 from 19.95 percent in 1990, the proportion of expenditures devoted to interest payment declined to 8.0 percent in 2006 from 17 percent in 1990 of the overall expenditures of the government of Jordan 2005. It is clear that the highest change occurred in the proportion of transfer expenditures in Jordan during the study period.

VI. THE GROWTH OF GOVERNMENT EXPENDITURES IN JORDAN

The size of the government of Jordan as well as the Jordanian economy has increased significantly throughout the last decades. The growth of public expenditures in Jordan is to a large extent due to increased income redistribution which is clear from the increase in the share of transfer payments. Figure No-2 depicts how government expenditures and the four different categories, consumption, investment, transfer and interest payment have changed during the study period. The curve of total expenditures and transfer payments are highly correlated specially in the recent years which gives further evidence that most of the changes in total expenditures are due to increase in transfer payments which is due to the social reforms that are supposed to secure a material well-being for all the citizens.

In 1990, the total government expenditures was 1032.6 million Jordanian Dinars which or 37.4 percent of GDP of these 205.9 million transfer payment which counted for 19.92% of total government expenditures. In 2006 total expenditures had increased to 3912.2 millions while its share of national income has reached to 39.1%. Transfer expenditures share out of the total government expenditures rose to 28.52%.

VII. DISCUSSION

Many types of studies were undertaken by different authors in order to understand the impact of government expenditures at the aggregate and disaggregate level on the economic development and many methods and variables were used for this purpose. Some of these studies focused on the study of impact of government expenditures on different sectors of the economy, GDP growth etc. while some other researchers paid much attention to study the role of economic growth on government expenditures. It is difficult to analyze the effect of government expenditures on all the sectors and variables as described above in a single study. There for, I narrow down my analysis to the impact of government expenditures on GDP growth.

TABLE I: GOVERNMENT OF JORDAN EXPENDITURES BY ECONOMIC CATEGORY AND GDP (AT CURRENT JORDANIAN DINAR)
Overall significance of model (F) =144.992

Coefficient data:

\[ \text{GDP} = 1.414 + 2.067 \text{re} + 4.331 \text{cap} + 1.339 \text{tra} + 4.992 \text{int} \]

The result of the estimated model is given as:

- \( \beta_1 \): Interest payment
- \( \beta_2 \): Transfer payment
- \( \beta_3 \): Capital expenditures
- \( \beta_4 \): Recurring expenditures

Where GDP: Gross Domestic Product

\[ \alpha = 1.414 \]

\[ \beta_1 = 2.067 \quad \text{(t statistic = 3.724) sig. (.003)} \]

\[ \beta_2 = 4.331 \quad \text{(t statistic = 4.894) sig. (.000)} \]

\[ \beta_3 = 1.339 \quad \text{(t statistic = 2.831) sig. (.015)} \]

\[ \beta_4 = 4.992 \quad \text{(t statistic = 2.001) sig. (.069)} \]

\[ R^2 = 0.980 \]

Standard Error = 334.64319

Correlation Coefficient (r) = 0.990 = 99%

The result shows the positive effect of government expenditures on the GDP during the period 1990-2006 as the \( \beta_1, \beta_2 \), and \( \beta_3 \) have a positive sign showing that the GDP increases as government expenditures increase. But \( \beta_4 \) sig. is (.069) which indicates that it has no impact on GDP growth.

The entire coefficients are significant. The value of R-Squared is 98% variation in GDP explained with the help of government expenditures. And there is 99% correlation between government expenditures and GDP in Jordan.

VIII. CONCLUSION

The main aim of this study was to study the impact of government expenditures on economic growth in Jordan, during the period 1990-2006. By testing the related data of government expenditures and GDP of Jordan at the aggregate level, it was found that government expenditures do cause the growth of GDP, which is compatible with the Keynesian's theory. The discovery of statistical analysis may provide insight into several aspects of policy implications.

Firstly: the more government expenditure does lead to the growth of the Jordanian economy, which seems consistent with the Keynesian's theory of fiscal policy.

Second: taking a micro viewpoint of each item of government expenditures, interest payments is proven to have no influence on GDP growth. Possible explanation could be a huge amount of money paid as external debt services which makes no contribution to domestic economy.

Third: government consumption expenditure does promote economic growth on Jordan, but less than the impact of government investment expenditures or transfer payments, as the investment expenditure for many years has been promoted by institutional economists as a development strategy in developing country, especially investment in human resources.

Policy recommendations that could be reasonably made from this study include that investment expenditures in particular investment in human resources should be prioritized than all other items of spending assuming economic growth is the most urgent goal of Jordanian government.

REFERENCES


