# ECONOMIC GROWTH IN A SMALL DEVELOPING COUNTRY: THE CASE OF BARBADOS

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#### 1 Introduction

- Research on economic growth in small countries concludes:
  - I. Small size does not per se inhibit the growth performance of a country (i.e., cross-country studies with small and large countries) relationship between country size and economic growth not statistically significant.
  - II. For small countries, the key factors which positively affect economic growth are:
    - exports
    - capital inflows
    - investment in physical and human capital
  - III. Too much intervention in the economy by the government can retard the growth process
- Purpose of this study is to identify the factors which have affected the growth process in Barbados over the period 1960-2000

## Features of Barbados:

- → small, developing country population of 267,400 in 1999
- highest ranked country in the LAC region with respect to the UNDP HDI
- → real GDP in 1960 was Bds \$316.1m (US \$158.1m) and in 1999 it was Bds \$954m (US \$477m)
- → average annual growth rate: 2.9 percent (1960-1999)
- real GDP per capita in 1960 was Bds \$1356.25 (US \$678.13), while in 1999, it was Bds \$3567.69 (US \$1783.85)
- > population growth rate: 0.35 percent per annum
- → general upward trend in real GDP with three periods of major decline: 1973-75, 1982-84 and 1990-93 due to external shocks (oil price increases, recession)

#### 2 Overview of Economic Growth Theory

Time path of real GDP (or real GDP per capita) influenced by:

→ long-term (i.e., trend)and short-term (i.e., irregular)

## economic and non-economic factors

**Issue**: What are the factors underlying the data-generating process with respect to real GDP and real GDP per capita?

- Factors identified in the literature on economic growth theory
- → savings
- physical capital accumulation
- → international trade
- → growth of knowledge and ideas
- → nature of private-public relations
- → institutions (property rights, economic freedom)
- → technical change
- product innovation and R and D
- human capital formation
- → financial development
- → inflation

Barro (1998) notes that over 140 possible determinants have been identified in the empirical literature.

	Research on Economic Growth in a Small Economy has							
	focused on:							
	→ international trade (i.e., exports)							
	→ human capital development							
	> physical capital investment (via foreign direct							
	investment - FDI)							
	Research Question: To what extent have these variables							
	influenced the economic growth process in a small							
	developing country such as Barbados							
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Emigration and remittances important between 1900 and П 1965 Post-World War II changes in the political institutions resulted from riots associated with the Great Depression 1929-32 View held: political and institutional change was the means to attain economic change (1946-1960) In 1950s and 1960s, a number of initiatives introduced: • development planning establishment of development institutions • granting of fiscal incentives Focus on private sector-led development (domestic and  $\Box$ especially foreign). The government saw its role as providing the institutional, physical and policy frameworks. development policy objectives: diversification (promotion of manufacturing tourism) employment creation

provision of social services

- human resources development
- poverty alleviation

#### 3.2 Growth and Structural Changes

- Over 1960-99 period, growth rate in real GDP was 2.9%
  - 1960-70: relatively high growth rate (6.8%)
  - 1970-80: slow down in growth (2.5%)

    Sub-period picture shows significant decline: 1970-75

    and good recovery: 1975-80
  - 1980-1990: further slow-down in growth (0.9%); decline in 1980-85, recovery 1985-90
  - 1990-2000: slight improvement, with decline in 1990-95 and recovery in 1995-2000
- ☐ Role of external events in influencing growth path
- ☐ Structural change decline of contribution of agriculture to real GDP (especially sugar)
  - growth of tourism since 1960s
  - constancy for manufacturing
  - high degree of foreign-ownership in manufacturing and tourism compared with sugar industry

- transition from an agricultural-based economy (i.e., sugar production) to services-based economy

3.3	Explaining Growth Performance: A Literature Review					
	Descriptive studies - qualitative					
	Quantitative studies - growth accounting					
		- time series regression analysis				
	Res	Results of empirical studies:				
	<b>→</b>	Growth Accounting: human capital - 48%				
		physical capital -31%				
		residual -20%				
		(total productivity)				
	<b>→</b>	Regression Analysis: financial development (+)				
		physical capital (+)				
		human capital (+)				
		exports (+)				
		government distortionary				
		policies (-)				
		interest rate (-)				

## 3.4 Explaining Growth Performance: Further Analysis

- ☐ Investment in human capital (education/training):
  - → growth in size and relative contribution of government expenditure in education (5.2% for current, 6.4% for capital over the period)
  - → increase in enrolment in schools/tertiary levels. High enrolment rates due to compulsory nature of schooling
  - → growth in tertiary enrolment and gradual decline in primary level (i.e., falling fertility)
  - → large public sector education system, small private sector
  - → increase in labour force with secondary education and higher
  - > growth in female participation rate
  - → improvement in health as evidenced by high expenditure
  - → focus on social investment in the country
- Investment in Physical Capital
  - → increase in personal financial savings (4.2% in real terms over period 1973-2000

- → government savings on current account
- relative constant 'real' gross investment
- → erratic FDI pattern

#### ☐` Exports sector

- → fall in sugar exports
- rise in price of sugar
- → light manufacturing in selected industry by FDI
- → increase in export of sugar
- → growth in tourism (arrivals, expenditure)

#### ☐ Macroeconomic management

- relatively low inflation rates (episodes of high inflation 1969-75 and 1979-82. Externally induced. Fixed exchange rate with main trading partner (UK then USA).
- → some appreciation of real exchange rate 1976-89 loss of competitiveness
- → fiscal incentives to promote private sector development
- → growth in fiscal deficit but generally relatively low rates of fiscal deficit to GDP
- → shifts in tax policy direct to indirect 1984-87

#### use of levies

- tax reform removal of levies and introduction of VAT
- → growth in tax-GDP ratio (17.9% 1960 to 36.8% in 1999)
- → some periods of BOP deficit (linked to fiscal deficit problems)
- → use of commercial policies constrained
- Institutional Environment
  - > stable democratic state
  - → liberal democratic philosophy
  - → good governance
  - → high credit rating financial/economic and civil liberties











