

Economic Performance of Public Investments in Irrigation in India in the Last Three Decades

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Introduction

The economic performance of Indian agriculture has been closely related to changes in agricultural productivity. Increases in agricultural productivity, in turn have been partly attributed to substantial increases in the irrigated area (Meizen-Dick and Rosegrant 2005; Gulati and Narayanan 2003; Vyas in Mundle et al. 2003; Pitman 2002). Agriculture accounts for over 80 % of consumptive water use in India (Pitman 2002), and is at times even recorded to be higher than 90 % (Amarasinghe et al. 2005; Meizen-Dick and Rosegrant 2005). The rise in the irrigated area came about with massive irrigation investments by the government, made with substantial support from the international donor community. These investments began in the 1960s and peaked in the 1980s, but in the early 1990s, public spending in agriculture slowed down and this translated into reduced spending in irrigation (Meizen-Dick and Rosegrant 2005; Gulati et al. 2005; Gulati and Narayanan 2003; Pitman 2002; Fan et al. 1999). Gross capital formation in agriculture declined from an average of 54 % in 1980-1981 to 26 % in 1999-2000 (Mundle et al. 2003). Support from multilateral and bilateral donor agencies also declined over the same period. However, there have been recent efforts to reverse this downward trend in investments in water-related infrastructure, including irrigation (Peacock et al. 2007; World Bank 2004).

The poor economic performance of many past irrigation projects in India may have contributed to the decline in irrigation investment and lending by international financial agencies in the 1990s (Meizen-Dick and Rosegrant 2005; Raja and Gulati 2005; Gulati et al. 2005; Pitman 2002; Jones 1995). Furthermore, the low rates of economic return may have also resulted in diminishing the poverty reduction impact of these irrigation projects (Meizen-Dick and Rosegrant 2005; Kikuchi et al. 2003; Rosegrant and Svendsen 1993). These findings, however, do not suggest that governments should stop investing in irrigation because of the poor economic performance of such projects. This paper shows instead that there are ways to improve economic performance and that governments need not choose between achieving food security (or objectives other than getting high economic returns from projects) and investing in economically unviable irrigation projects.

The Economic Performance Of Public Investments

**United States. Congress. House.
Committee on Transportation and
Infrastructure. Subcommittee on
Public Buildings and Economic
Development**

The Economic Performance Of Public Investments:

The Economic Performance of Public Investments Robert H. Haveman, 1972 **Public Investment Efficiency and Sectoral Economic Growth in Pakistan** Ahmed, Qazi Masood, Ali, Syed Ammad, This paper compares the effects of aggregate and sectoral public investments on sectoral private investment output and employment We estimate the elasticities of private investment with respect to aggregate and sectoral public investments to find crowding out or crowding in phenomena in Pakistan The study also reveals the changes in labor absorption or replacement due to additional capital and the effects on output Our data covers eight sectors of the Pakistan economy and uses annual time series data from 1964 to 2011 This study uses vector autoregressive VAR techniques as applied by Pereira 2000 2001 which allows measuring the dynamic feedback effects among the variables The Role of Public Investment in Promoting Economic Growth United States. Congress. House. Committee on Financial Services, 2007 **Public Investment and Regional Economic Development** Daniel Felsenstein, Ronald McQuaid, Philip McCann, Daniel Shefer, 2001-01-01 Public Investment and Regional Economic Development is a very interesting and stimulating reading for policymakers and anyone doing research in this area Adelheid Holl Environment and Planning C Government and Planning The relationship between public investment and regional economic development is of perennial interest and is particularly topical now as issues of infrastructure and innovation are high on policy agendas in many countries Public investment is often viewed as a possible method for jump starting lagging regional economies and also as a requirement for the continued development of more prosperous regions Public Investment and Regional Economic Development provides a systematic analysis of the complex relationship between public investment and regional economic development The authors offer new insights into the key issues of regional growth and present a broad variety of perspectives ranging from transport and housing infrastructure through to human capital and innovation *Public Investment, Growth and Fiscal Constraints* Massimo Florio, 2011-01-01 This book makes a unique contribution in advancing understanding of the fiscal condition and growth potential of the New Member States of the European Union It provides new data policy evaluation and offers national and regional perspectives The core research questions are the effect of public investment in the context of macroeconomic disequilibrium and how it is possible to finance capital accumulation in the present and future conditions of mounting public sector debt The contributors reveal that there is now a convincing case for public investment as an essential driver of convergence and growth in Europe However a new international and inter generational fiscal pact to frame a more optimistic view of the role of government is needed This book explores how public investment matters for growth how fiscal conditions may support investment and the role EU regional policy can have in terms of structural change and investment needs Public Investment Growth and Fiscal Constraints provides new data analyses on the EU New Member States in Central and Eastern Europe making it an essential tool for academics students and practitioners interested in public finance and European Economics The structural and public finance

issues in these former transition economies raised in this book will also strongly appeal to policymakers officials and consultants The book is based on an independent research project of the University of Milan supported by the European Investment Bank A Study of Public Works Investment in the United States: Appendices Consad Research

Corporation,1980 **Public Investment as an Engine of Growth** Mr.Andrew M. Warner,2014-08-11 This paper looks at the empirical record whether big infrastructure and public capital drives have succeeded in accelerating economic growth in low income countries It looks at big long lasting drives in public capital spending as these were arguably clear and exogenous policy decisions On average the evidence shows only a weak positive association between investment spending and growth and only in the same year as lagged impacts are not significant Furthermore there is little evidence of long term positive impacts Some individual countries may be exceptions to this general result as for example Ethiopia in recent years as high public investment has coincided with high GDP growth but it is probably too early to draw definitive conclusions The fact that the positive association is largely instantaneous argues for the importance of either reverse causality as capital spending tends to be cut in slumps and increased in booms or Keynesian demand effects as spending boosts output in the short run It argues against the importance of long term productivity effects as these are triggered by the completed investments which take several years and not by the mere spending on the investments In fact a slump in growth rather than a boom has followed many public capital drives of the past Case studies indicate that public investment drives tend eventually to be financed by borrowing and have been plagued by poor analytics at the time investment projects were chosen incentive problems and interest group infested investment choices These observations suggest that the current public investment drives will be more likely to succeed if governments do not behave as in the past and instead take analytical issues seriously and safeguard their decision process against interests that distort public investment decisions

Macroeconomic Analysis of the Linkages Between Transportation Investments and Economic Performance

Michael E. Bell,1997 The Macroeconomic Effects of Public Investment Mr.Abdul Abiad,Davide Furceri,Petia Topalova,2015-05-04 This paper provides new evidence of the macroeconomic effects of public investment in advanced economies Using public investment forecast errors to identify the causal effect of government investment in a sample of 17 OECD economies since 1985 and model simulations the paper finds that increased public investment raises output both in the short term and in the long term crowds in private investment and reduces unemployment Several factors shape the macroeconomic effects of public investment When there is economic slack and monetary accommodation demand effects are stronger and the public debt to GDP ratio may actually decline Public investment is also more effective in boosting output in countries with higher public investment efficiency and when it is financed by issuing debt *Fiscal Rules, Public Investment, and Growth* Luis Servén, **Public Investment Efficiency in Sub-Saharan African Countries** Karim Barhoumi,Ha Vu,Shirin Nikaein Towfighian,Mr.Rodolfo Maino,2018-07-06 There is significant room to improve public

investment efficiency in sub Saharan Africa Investment in sub Saharan African countries is lagging vis vis peers such as emerging and developing Asia as well as Latin America and the Caribbean and the region s infrastructure is perceived as being of relatively low quality Improving the efficiency of sizable investment programs in the region could contribute to more solid economic growth and help achieve desired social priorities and development goals Results point to some variability in public investment efficiency within the region Comparing efficiency scores across country groups suggests that investment efficiency in sub Saharan African oil exporters tends to be lower than in sub Saharan African non resource intensive countries Additionally countries in East African Community EAC perform better than those in Central African Economic and Monetary Community CEMAC and West African Economic and Monetary Union WAEMU Stronger institutions could foster more efficient public investment The regression results in this paper show a positive correlation between public investment efficiency and the quality of institutions suggesting that developing stronger institutions in sub Saharan Africa could lead to a significant improvement in investment efficiency This is particularly relevant for countries with weak institutional quality where governments may use capital spending as a vehicle for rent seeking leading to inefficient spending Given the current drive for scaling up investment in sub Saharan Africa the task of improving institutions quickly should become a priority

How Public Investment Could Help Strengthen Iran's Growth Potential: Issues and Options Amir

Sadeghi,2018-06-08 Public investment is key to growth in developing oil exporting countries and oil revenue is an important source of finance for public investment Assessing the growth impact of public investment in Iran under various investment scaling up gradual aggressive and conservative and oil price baseline and adverse scenarios this paper shows that because of absorptive capacity constraint and investment inefficiency the growth outcome of an aggressive investment scaling up is not significantly different from a conservative or a gradual scenario while its costs in terms of fiscal adjustment are significantly higher especially during low oil price periods An improvement in investment efficiency has a significant positive impact on growth outcome and leads to higher private consumption and investment Using an oil fund on the other hand can help contain the size of fiscal adjustments although it would result in a larger appreciation of real exchange rate and deterioration in the current account balance

Infrastructure Development in the Pacific Region Akira Kohsaka,2007-01-24 In the past undersupply of public infrastructure was blamed for low productivity growth in the United States in the 1970s while greater private sector participation was emphasized for infrastructure development in the Asia Pacific region before the Asian Economic Crisis in the 1990s This revealing book looks at the current economic situation and the state of infrastructure on both sides of the Pacific Including contributions from leading authorities such as Satya Paul Jim Storey Tony Makin and Naoyuki Yoshino this book closely investigates the experiences of Japan Canada the US China Korea and Australia

Reauthorization of the Economic Development Administration and the Appalachian Regional Commission

United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Public Buildings and

Economic Development,1998 **President Clinton's Proposals for Public Investment and Deficit Reduction** United States. Congress. House. Committee on Ways and Means,1993 **A Study of the Effects of Public Investment** Consad Research Corporation,1969 **Economic Efficiency and Social Welfare (Routledge Revivals)** E. Mishan,2013-05-13

First published in 1981 Professor Mishan's *Economic Efficiency and Social Welfare* Selected Essays on Fundamental Aspects of the Economic Theory of Social Welfare is a collection of 22 pioneering essays written while the author was teaching at the London School of Economics and chosen to indicate landmarks in the development of his own thought Professor Mishan who also enjoys an international reputation as a popular writer on the impact of modern economic growth on social welfare is among the foremost authorities in the field of resource allocation and his influence in his subject area has been profound Mishan's essays while generally accessible to the layman due to the author's lucidity his economy in the use of mathematical notation and his concern with perspective are invaluable reading for the economics undergraduate The essays are particularly relevant to upper level students of project appraisal welfare economics and cost benefit analysis requiring a coherent survey of their field of study *Public Debt and Economic Growth* Alfred Greiner,Bettina Fincke,2009-07-24

Starting point of this book is the observation that an increase in public debt must be accompanied by a rise in the primary surplus of the government to guarantee sustainability of public debt The book first elaborates on that principle from a theoretical point of view and then tests whether empirical evidence for that rule can be found Additional tests are implemented to gain further evidence on sustainability of public debt In order to allow for time varying coefficients penalized spline estimations are performed The theoretical chapters present endogenous growth models and assume that the primary surplus rises as public debt increases so that sustainability of public debt is given Implications of public deficits and debt are studied assuming full employment and for unemployment The conclusion summarizes the findings and compares the results of the different models Finally policy implications are given showing how governments should deal with high public debt to GDP ratios *A Study of Public Works Investment in the United States* ,1980 **Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency** Ajibessin, Adeyemi Abel,Vajjhala, Narasimha Rao,2024-01-16

In today's highly competitive and rapidly evolving global landscape the quest for efficiency has become a crucial factor in determining the success of organizations across various industries Data Envelopment Analysis DEA Methods for Maximizing Efficiency is a comprehensive guide that delves into the powerful mathematical tool of DEA is designed to assess the relative efficiency of decision making units DMUs and provides valuable insights for performance improvement This book presents a systematic overview of DEA models and techniques from fundamental concepts to advanced methods showcasing their practical applications through real world examples and case studies Catering to a broad audience this book is designed for students researchers consultants decision makers and enthusiasts in the field of efficiency analysis and performance measurement Consultants and practitioners will gain practical insights for applying DEA in various contexts and decision makers will be

equipped to make informed decisions for maximizing efficiency Additionally individuals with a general interest in data analysis and performance measurement will find this book accessible and informative This book covers a wide range of topics including mathematical foundations of DEA DEA models and variations DEA efficiency and productivity measures DEA applications in various industries such as healthcare finance supply chain management environmental management education management and public sector management

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