

*Evaluating Public Sector*

Research  
and  
Development

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Albert N. Link

# Evaluating Public Sector Research And Development

**Michael Crow, Barry Bozeman**



## **Evaluating Public Sector Research And Development:**

**Evaluating Public Sector Research and Development** Albert Link, 1996-05-16 The need for evaluation of public sector research and development activity is critical in today's political environment to assist policymakers with resource allocation Methodology for evaluating public sector research and development activity is described and illustrated by the author using in depth case studies drawn from the research programs at the National Institute of Standards and Technology These cases range from newly formed federal laboratory research initiatives to well established research programs Managerial and evaluative guidelines are enunciated The United States has supported research and development activity on both the applied and basic research levels for most of its history The importance of public sector research has often been discussed but its effectiveness has not been adequately reviewed The need for evaluation of public sector research and development activity is critical in today's political environment to assist policymakers with resource allocation Methodology for evaluating public sector research and development activity is described and illustrated by the author using in depth case studies drawn from the research programs at the National Institute of Standards and Technology These cases range from newly formed federal laboratory research initiatives to well established research programs Managerial and evaluative guidelines are enunciated This work should be of interest to scholars who deal with economics in general public policy science policy and public administration In addition practitioners in public administration and managers of public sector research laboratories on federal and state levels should find the information useful Those who depend on research and development done with public sector money or who use it to supplement their research programs will also be interested

**The Public Sector R&D Enterprise: A New Approach to Portfolio Valuation** P. Linquiti, 2015-04-24 The Public Sector R D Enterprise combines a primer on how government R D programs actually work with a sophisticated methodology for prospectively putting a dollar figure on the value of R D investments before they are made **Handbook on the Theory and Practice of Program Evaluation** Albert N. Link, Nicholas S. Vonortas, 2013-01-01 The economic crisis has simultaneously placed a strong emphasis on the role of R D as an engine of economic growth and a demand that limited public resources are demonstrated to have had the maximum possible impact Rigorous evaluation is the key to meeting these needs This Handbook brings together highly experienced leaders in the field to provide a comprehensive and well organised state of the art overview of the range of methods available It will prove invaluable to experienced practitioners students in the field and more widely to those who want to increase their understanding of the complex and pervasive ways in which technological advance contributes to economic and social progress Luke Georghiou University of Manchester UK Theoretical and empirical research on program evaluation has advanced rapidly in scope and quality A concomitant trend is increasing pressure on policymakers to show that programs are effective Now is the time for a comprehensive status report on state of the art research and methods by leading scholars in a variety of disciplines on program evaluation This outstanding collection

of contributions will serve as a valuable reference tool for academics policymakers and practitioners for many years to come Donald S Siegel University at Albany SUNY US There has been a dramatic increase in expenditures on public goods over the past thirty years particularly in the area of research and development As governments explore the many opportunities for growth in this area they and the general public are becoming increasingly concerned with the transparency accountability and performance of public programs This pioneering Handbook offers a collection of critical essays on the theory and practice of program evaluation written by some of the most well known experts in the field As this volume demonstrates a wide variety of methodologies exist to evaluate particularly the objectives and outcomes of research and development programs These include surveys statistical and econometric estimations patent analyses bibliometrics scientometrics network analyses case studies and historical tracings Contributors divide these and other methods and applications into four categories economic non economic hybrid and data driven in order to discuss the many factors that affect the utility of each technique and how that impacts the technological economic and societal forecasts of the programs in question Scholars practitioners and students with an interest in economics and innovation will all find this Handbook an invaluable resource

**Public Sector Entrepreneurship** Dennis Patrick Leyden, Albert N. Link, 2015-01-06 Public sector entrepreneurship refers to innovative public policy initiatives that generate greater economic prosperity by transforming a status quo economic environment into one more conducive to creative and innovative activities under uncertainty This book illustrates public sector entrepreneurship using examples from U S technology and innovation policy

**Cooperation in Research and Development** Nicholas S. Vonortas, 2012-12-06 Cooperation in Research and Development provides an empirical and theoretical analysis of a distinct form of inter firm collaboration in Research Development R D research joint ventures RJDs Of all types of cooperation RJDs have received the most attention in both formal industrial organization and science and technology policy literature The emerging theoretical economic literature on incentives of firms to join RJDs has not been followed by much empirical work Cooperation in Research and Development attempts to fill the void caused by this lack of consistent data on the rate of RJD formation RJD characteristics and RJD member characteristics Significant attention is paid to the role of RJDs in facilitating virtual firm diversification as necessary to pursue particular technological objectives An effort is also made to blend the reported theoretical and empirical analyses with conceptual models of the process of technological innovation and models of industrial evolution in order to provide answers beyond the reach of the received economic theory Cooperation in Research and Development should be of interest to academic economists policy makers and business representatives The microeconomic issues the book deals with overlap significantly with the interests of decision makers both in government and business

*The Science of Science Policy* Kaye Fealing, 2011-03-18 This handbook provides an overview of the current theoretical and empirical basis for a science of science policy It offers perspectives from the federal science and policy community and look towards a research agenda for tomorrow

**The Economics of R&D Policy**

Gregory Tasse,1997-11-25 Industry officials and government policymakers have for some time decried the lack of a framework for establishing and defending Research and Development R D policies Effective policy requires an understanding of the underlying economics This book offers models and analysis of the economic elements that drive technology based growth with emphasis on their implications for policy analysis It also compares existing U S policies with those used in Europe and Japan The results of these models and analysis is a framework for matching various forms of underinvestment with efficient strategic and policy responses This market failure based approach enables industry and government R D initiatives to be developed analyzed and implemented with greater success than previously attained The first part of the book analyzes economic trends to show how they are affected by technological change and the evolving nature of foreign competition R D spending patterns are studied to identify and characterize market failures that prevent adequate private sector investments in technology A model is presented for a typical technology based industry The second part looks at specific technologies and policies that impact R D investment and that have been the subject of intense policy debate

**The Economics and Science of Measurement** Albert N. Link,2021-07-08 Metrology is the study of measurement science Although classical economists have emphasized the importance of measurement per se the majority of economics based writings on the topic have taken the form of government reports related to the activities of specific national metrology laboratories This book is the first systematic study of measurement activity at a national metrology laboratory and the laboratory studied is the U S National Institute of Standards and Technology NIST within the U S Department of Commerce The primary objective of the book is to emphasize for academic and policy audiences the economic importance of measurement not only as an area of study but also as a tool for sustaining technological advancement as an element of economic growth Toward this goal the book offers an overview of the economic benefits and consequences of measurement standards an argument for public sector support of measurement standards a historical perspective of the measurement activities at NIST an empirical analysis of one particular measurement activity at NIST namely calibration testing and a roadmap for future research on the economics of metrology

**The Social Value of New Technology** Albert N. Link,John T. Scott, New technologies with their practical contributions provide social value The chapters in this volume view this social value from a program evaluation perspective and the focus of the evaluations is the generation of new technology funded by public sector agencies The authors provide important background on methodology and application and show that it is relevant not only to the established scholars and practitioners but also to students

Public Goods, Public Gains Albert N. Link,John T. Scott,2011-01-27 In Public Goods Public Gains Link and Scott discuss and apply in case studies the systematic application of alternative evaluation methods to estimate the social benefits of publicly financed research and development R D The authors argue that economic theory should be the guiding criterion for any method of program evaluation because it focuses attention on the value and the opportunity costs of the program

**Government as Entrepreneur** Albert N.

Link, Jamie R. Link, 2009-08-26 Interest in entrepreneurship and its impact on the economy has recently exploded and while there have been books published on various aspects of entrepreneurship literature on the role of government has been noticeably absent This book is the first broad effort to emphasize the entrepreneurial aspects of governments **The Advanced Technology Program** National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2001-07-06 This report examines the operations of the ATP reviews its extensive assessment program and provides NRC Committee findings concerning the ATP's operations and recommendations for potential improvements to the program The report includes a summary of a major conference held in April 2000 as well as seven papers including surveys of the industry participants or users of the ATP program a summary of the results of fifty awards detailed assessments of major joint ventures and a description of the current selection process It is the most comprehensive study to date of the program's origins operations achievements and assessment Its conclusion the program works **Technological Change and Economic Performance** Albert N. Link, Donald Siegel, 2003-02-20 Reviews of the literature on historical and theoretical developments of technology and economic growth including productivity measures technical knowledge technological spillovers and stock market reactions to technology investment *Essays in Honor of Edwin Mansfield* Albert N. Link, Frederic M. Scherer, 2005-07-01 Edwin Mansfield was a research pioneer into the economics of R and D and technological change As appreciation and remembrance for his scholarly contributions eminent scholars have contributed original papers for this edited volume The authors have followed the Mansfieldian approach of emphasizing economic insight and intuition over mathematical rigor and as a result are very accessible *Essays in Honor of Edwin Mansfield* has the potential to serve as a reader in all advanced undergraduate and graduate classes seminars in the economics of R and D and technological change This edited volume will be the definitive work in the field **Innovation, Entrepreneurship, and Technological Change** Albert N. Link, Donald S. Siegel, 2007-06-07 A comprehensive and integrative overview of the current thinking on innovation entrepreneurship and technical change written from an economics perspective for academics graduate and advanced undergraduate students of Business Studies Economics Entrepreneurship and Innovation Studies *Limited by Design* Michael Crow, Barry Bozeman, 1998-09-25 *Limited by Design* is the first comprehensive study of the varying roles played by the more than 16 000 research and development laboratories in the U S national innovation system Michael Crow and Barry Bozeman offer policy makers and scientists a blueprint for making more informed decisions about how to best utilize and develop the capabilities of these facilities Some labs such as Bell Labs Westinghouse and Eastman Kodak have been global players since the turn of the century Others such as Los Alamos National Laboratory have been mainstays of the military energy industrial complex since they evolved in the 1940s These and other institutions have come to serve as the infrastructure upon which a range of industries have relied and have had a tremendous impact on U S social and economic history Michael Crow and Barry Bozeman illustrate the histories missions structure and behavior of individual

laboratories and explore the policy contexts in which they are embedded In studying this large and varied collection of labs Crow Bozeman and their colleagues develop a new framework for understanding the structure and behavior of laboratories that also provides a basis for rationalizing federal science and technology policy to create more effective laboratories The book draws upon interviews and surveys collected from thousands of scientists administrators and policy makers and features boxed lab windows throughout that provide detailed information on the variety of laboratories active in the U S national innovation system Limited by Design addresses a range of questions in order to enable policy makers university administrators and scientists to plan effectively for the future of research and development **Government Laboratory**

**Technology Transfer** Sally Rood,2018-02-06 This title was first published in 2000 Due to budget cuts and competitiveness pressures determining the outcome of technology transfer from government R D laboratories to private industry and entrepreneurial start ups is of increasing interest This book presents a series of case studies of successful technology transfer by examining the same list of topics for each case It presents a format for analyzing the cases topic by topic a methodology that could be used by any R D laboratory The book also goes one step further and compares the cases that took place prior to national technology transfer legislation with those cases that took place after passage of such legislation An additional feature is the summary of existing attempts to measure and evaluate technology transfer This follows a background section on the technology policy context The analysis finds that there is a significant commercial impact from government laboratory transfer using this approach *Public/Private Partnerships* Albert N. Link,2006-06-03 Research and development R and D leads to innovation and innovation leads to technological change Technological change in turn is the primary driver of economic growth Public private partnerships cooperative relationships among industry government and or universities leverage the efficiency of R and D and are thus a critical aspect of a nation s innovation system This text is intended for upper level undergraduate and MBA courses such as Economics and Technology Economics of Innovation and Economics of Science and Technology among others The first chapter introduces the concept of public private research partnerships along with other concepts fundamental to an understanding of innovation and technology policy The framework chapters 2 5 set forth an argument for the public s role government s role in innovation in general and in public private partnership in particular The remaining chapters 6 14 describe a number of public private partnerships and to the extent possible evaluate their social impact *Economic Assessment of the NIST Ceramic Phase Diagram Program* Michael L. Marx,1998 Public Accountability Albert N. Link,John T. Scott,2012-12-06 Public Accountability Evaluating Technology Based Institutions presents guidelines for evaluating the research performance of technology based public institutions and illustrates these guidelines through case studies conducted at one technology based public institution the National Institute of Standards and Technology NIST The aim of this book is to demonstrate that a clear more precise response to the question of performance accountability is possible through the systematic application of evaluation methods to document value The

authors begin with a review of the legislative history of fiscal accountability beginning with the Budget and Accounting Act of 1921 and ending with the Government Performance and Results Act of 1993 A discussion of existing applicable economic models methods and associated metrics follows The book concludes with evaluation case studies



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