

U.S. INDUSTRY RESTRUCTURING AND RENEWAL



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# SECURING AMERICA'S INDUSTRIAL STRENGTH

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AMERICAN ECONOMIC FOUNDATION

NATIONAL RESEARCH COUNCIL

# Securing Americas Industrial Strength

**National Research Council, Policy and  
Global Affairs, Board on Science,  
Technology, and Economic Policy**

## **Securing Americas Industrial Strength:**

**Securing America's Industrial Strength** National Research Council, Board on Science, Technology, and Economic Policy, 1999-06-13 This volume presents the conclusions of the National Research Council's Board on Science Technology and Economic Policy from industry studies published under the title U S Industry in 2000 Studies in Competitive Performance and other work on U S industrial performance It reviews patterns of corporate strategy and industry restructuring and considers the role of the national monetary and fiscal policies as well as trade regulatory and intellectual property policies The report presents new statistical evidence of trends in public and private R D expenditures and outlines a policy agenda for the next decade

**Trends in Federal Support of Research and Graduate Education** National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Trends in Federal Spending on Scientific and Engineering Research, 2001-10-30 The Board on Science Technology and Economic Policy updated its 1999 analysis Appendix A Securing America's Industrial Strength 1999 of changes since 1990 in the distribution of federal research funding by field of science and engineering by incorporating FY 1998 and FY 1999 obligations from the NSF Federal Funds survey with particular attention to the trends in basic research support changes in research fields relative dependence on research sponsoring agencies and the relationship between changes in research support and changes in enrollment in graduate training in selected fields of research The Board did not recommend funding levels for any discipline but addressed procedural aspects of R D budgeting

*Measuring the Science and Engineering Enterprise* National Research Council, Committee on National Statistics, Office of Scientific and Engineering Personnel, Committee to Assess the Portfolio of The Division of Science Resources Studies of NSF, 2000-02-14 The science and engineering enterprise has continued to evolve responding over the last decade to increased economic globalization a post cold war military federal budget fluctuations and structural changes in the way science and engineering are conducted and innovations are adopted This report suggests ways to revise the data collection activities of the Science Resources Studies Division SRS of the National Science Foundation to better capture the current realities of R D funding and S E human resources The report's recommendations would improve the relevance of the data on graduate education the labor market for scientists and engineers and the funding and conduct of research and development and thus better meet the data needs of policymakers managers and researchers

*Capitalizing on Investments in Science and Technology* National Academy of Engineering, National Academy of Sciences, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1999-04-18 Although the United States is currently capitalizing on its investment in science and technology effectively there remains much room for improvement This volume identifies the ingredients for success in capitalizing on such investments to produce national benefits assesses current U S performance and identifies future challenges The book cites specific examples and examines

several cross cutting issues It explores the possibility that the national research portfolio is losing diversity as a result of less long term research in critical fields such as networking and materials It also examines the implications of imbalances in the supply of and demand for science and engineering talent in emerging interdisciplinary fields such as bioinformatics *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

**In War and Peace** Guy Stever,2002-10-07 Science came into Guy Stever s life as a pure and peaceful pursuit It was only later as he walked through the wreckage of wartime London that he began to see science as central to a desperate struggle to survive Past president of Carnegie Mellon University former Chief Scientist of the U S Air Force one time Director of the National Science Foundation professor at MIT for 20 years member of the National Academies of Sciences and Engineering and science advisor to two presidents Guy Stever was a central figure in twentieth century science consistently on the front lines changing the fate of a nation In this thoughtful and candid memoir Stever recounts an extraordinary life that reveals as much about the man as about the major scientific and technological events of his day Born of humble origins and orphaned at an early age Stever journeyed from a small town in New York to work alongside British comrades who were developing and refining the critical radar technology that was to turn the tide of the war against the Germans As a technical intelligence officer these harrowing wartime years took him from the beachheads of Normandy to the German slave labor factories responsible for building the V 2 rockets Stever returned home committed to serving his country He became intimately involved in America s nascent guided missile program and was to remain a key player in the anti ballistic missile defense program that heralded the era of the Cold War As the decades passed Stever continued to exert lasting influence on countless scientific endeavors He was instrumental in the formation of new institutions from the creation of NASA in the post Sputnik years to the merging of Carnegie Tech and the Mellon Institution giving birth to Carnegie Mellon University As Presidential Science Advisor to both Nixon and Ford Stever shaped the very structure of contemporary presidential science advising And he was to chair the oversight committee that redesigned the space shuttle boosters after the Challenger explosion Guy Stever s life offers remarkable insight into the twentieth century Through his eyes we relive the history of the past 50 years witnesses to a tale of science and technology that is revealing in its scope and sweep

**Capitalizing on Investments in Science and Technology** Committee on Science, Engineering, and Public Policy,National Academy of Sciences, National Academy of Engineering, Institute of

Medicine, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, 1999-04-01 Although the United States is currently capitalizing on its investment in science and technology effectively there remains much room for improvement This volume identifies the ingredients for success in capitalizing on such investments to produce national benefits assesses current U S performance and identifies future challenges The book cites specific examples and examines several cross cutting issues It explores the possibility that the national research portfolio is losing diversity as a result of less long term research in critical fields such as networking and materials It also examines the implications of imbalances in the supply of and demand for science and engineering talent in emerging interdisciplinary fields such as bioinformatics

*Science, Technology and Industry Outlook 2000* OECD, 2000-09-27 This study summarises key recent developments in science technology and innovation across the OECD area It covers trends provides an overview of policy developments and emphasises the roles played by science and technology in recent economic growth

**Capitalizing on New Needs and New Opportunities** National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2001-02-11 This report addresses a topic of recognized policy concern To capture the benefits of substantial U S investments in biomedical R D parallel investments in a wide range of seemingly unrelated disciplines are also required This report summarizes a major conference that reviewed our nation's R D support for biotechnology and information technologies The volume includes newly commissioned research and makes recommendations and findings concerning the important relationship between information technologies and biotechnology It emphasizes the fall off in R D investments needed to sustain the growth of the U S economy and to capitalize on the growing investment in biomedicine It also encourages greater support for interdisciplinary training to support new areas such as bioinformatics and urges more emphasis on and support for multi disciplinary research centers

Using Human Resource Data to Track Innovation National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2002-09-05 Despite the fact that technology is embodied in human as well as physical capital and that interactions among technically trained people are critical to innovation and technology diffusion data on scientists engineers and other professionals have not been adequately exploited to illuminate the productivity of and changing patterns in innovation STEP convened a workshop to examine how data on qualifications and career paths mobility cross sector relationships and the structure of work in firms could shed light on issues of research productivity interactions among private and public sector institutions and other aspects of innovation

**Commun?c?t?on T?chnolog?c?l D?v?lopm?nt** Soukina Toubali, 2009-07-01 *U.S. Industry in 2000* National Research Council, Board on Science, Technology, and Economic Policy, 1999-06-11 U S industry faced a gloomy outlook in the late 1980s Then industrial performance improved dramatically through the 1990s and appears pervasively brighter today A look at any group of industries however reveals important differences in the factors behind the resurgence in industry structure and strategy research performance and location of activities as well as similarities in the national policy

environment impact of information technology and other factors U S Industry in 2000 examines eleven key manufacturing and service industries and explores how they arrived at the present and what they face in the future It assesses changing practices in research and innovation technology adoption and international operations Industry analyses shed light on how science and technology are applied in the marketplace how workers fare as jobs require greater knowledge and how U S firms responded to their chief competitors in Europe and Asia The book will be important to a wide range of readers with a stake in U S industrial performance corporate executives investors labor representatives faculty and students in business and economics and public policymakers

**Materials Needs and R&D Strategy for Future Military Aerospace Propulsion Systems** National Research Council,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Committee on Materials Needs and R&D Strategy for Future Military Aerospace Propulsion Systems,2011-07-20 The ongoing development of military aerospace platforms requires continuous technology advances in order to provide the nation s war fighters with the desired advantage Significant advances in the performance and efficiency of jet and rocket propulsion systems are strongly dependent on the development of lighter more durable high temperature materials Materials development has been significantly reduced in the United States since the early 1990s when the Department of Defense DOD the military services and industry had very active materials development activities to underpin the development of new propulsion systems This resulted in significant improvements in all engine characteristics and established the United States in global propulsion technology Many of the significant advances in aircraft and rocket propulsion have been enabled by improved materials and materials manufacturing processes To improve efficiency further engine weight must be reduced while preserving thrust Materials Needs and Research and Development Strategy for Future Military Aerospace Propulsion Systems examines whether current and planned U S efforts are sufficient to meet U S military needs while keeping the U S on the leading edge of propulsion technology This report considers mechanisms for the timely insertion of materials in propulsion systems and how these mechanisms might be improved and describes the general elements of research and development strategies to develop materials for future military aerospace propulsion systems The conclusions and recommendations asserted in this report will enhance the efficiency level of effort and impact of DOD materials development activities

*Measuring and Sustaining the New Economy* National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,2002-03-08 Sustaining the New Economy will require public policies that remain relevant to the rapid technological changes that characterize it While data and its timely analysis are key to effective policy making we do not yet have adequate statistical images capturing changes in productivity and growth brought about by the information technology revolution This report on a STEP workshop highlights the need for more information and the challenges faced in measuring the New Economy and sustaining its growth

*Improving School-to-Work Transitions* David Neumark,2007-01-09 As anxieties about America s economic competitiveness mounted in the 1980s so too did concerns that

the nation's schools were not adequately preparing young people for the modern workplace. Spurred by widespread joblessness and job instability among young adults, the federal government launched ambitious educational reforms in the 1990s to promote career development activities for students. In recent years, however, the federal government has shifted its focus to test-based reforms like No Child Left Behind that emphasize purely academic subjects. At this critical juncture in education reform, *Improving School To Work Transitions*, edited by David Neumark, weighs the successes and failures of the 90s-era school-to-work initiatives and assesses how high schools, colleges, and government can help youths make a smoother transition into stable, well-paying employment. Drawing on evidence from national longitudinal studies, surveys, interviews, and case studies, the contributors to *Improving School To Work Transitions* offer thought-provoking perspectives on a variety of aspects of the school-to-work problem. Deborah Reed, Christopher Jepsen, and Laura Hill emphasize the importance of focusing school-to-work programs on the diverse needs of different demographic groups, particularly immigrants who represent a growing proportion of the youth population. David Neumark and Donna Rothstein investigate the impact of school-to-work programs on the forgotten half: students at the greatest risk of not attending college. Using data from the 1997 National Longitudinal Study of Youth, they find that participation in programs like job shadowing, mentoring, and summer internships raises employment and college attendance rates among men and earnings among women. In a study of nine high schools with National Academy Foundation career academies, Terry Orr and her fellow researchers find that career academy participants are more engaged in school and are more likely to attend a four-year college than their peers. Nan Maxwell studies the skills demanded in entry-level jobs and finds that many supposedly low-skilled jobs actually demand extensive skills in reading, writing, and math, as well as the new basic skills of communication and problem-solving. Maxwell recommends that school districts collaborate with researchers to identify which skills are most in demand in their local labor markets. At a time when test-based educational reforms are making career development programs increasingly vulnerable, it is worth examining the possibilities and challenges of integrating career-related learning into the school environment. Written for educators, policymakers, researchers, and anyone concerned about how schools are shaping the economic opportunities of young people, *Improving School To Work Transitions* provides an authoritative guide to a crucial issue in education reform.

**Comprehensive Intellectual Capital Management** Nermien Al-Ali, 2003-03-20. Learn the fundamentals, practices, and models of intellectual capital management with this essential resource. Providing a business-oriented critical review of the definitions, practices, tools, and models that are available today, its approach enables you to understand and retain the cutting-edge issues in the emerging field of intellectual capital management. Includes a diagnostic tool that you can use to assess your position on the continuum of intellectual capital management and leverage your competitive advantage. Provides plenty of real-life examples and case studies, including Dow Chemical and American Skandia. Offers checklists for steps required for the three main processes of intellectual capital management: knowledge, innovation, and intellectual property management.

and more Order your copy today      **The Oxford Handbook of Innovation** Jan Fagerberg, David C. Mowery, Richard R. Nelson, 2006-01-19 This handbook provides academics and students with a comprehensive and holistic understanding of the phenomenon of innovation      **The Twenty-First-Century Firm** Paul DiMaggio, 2009-04-11 Students of management are nearly unanimous as are managers themselves in believing that the contemporary business corporation is in a period of dizzying change This book represents the first time that leading experts in sociology law economics and management studies have been assembled in one volume to explain the varying ways in which contemporary businesses are transforming themselves to respond to globalization new technologies workforce transformation and legal change Together their essays whose focal point is an emerging network form of organization bring order to the chaotic tumble of diagnoses labels and descriptions used to make sense of this changing world Following an introduction by the editor the first three chapters by Walter Powell David Stark and Eleanor Westney report systematically on change in corporate structure strategy and governance in the United States and Western Europe East Asia and the former socialist world They separate fact from fiction and established trend from extravagant extrapolation This is followed by commentary on them Reinier Kraakman affirms the durability of the corporate form David Bryce and Jitendra Singh assess organizational change from an evolutionary perspective Robert Gibbons considers the logic of relational contracting in firms and Charles Tilly probes the deeper historical context in which firms operate The result is a revealing portrait of the challenges that managers face at the dawn of the twenty first century and of how the diverse responses to those challenges are changing the nature of business enterprise throughout the world      **Academy & the Internet** Helen Fay Nissenbaum, Monroe E. Price, 2004 This book explores the impact of the Internet on scholarly research across and beyond the social sciences The contributors leading figures in a broad spectrum of disciplines explain how their fields of inquiry are being redefined and what issues of social change are salient as new information technologies increasingly become the subject of scholarly analysis They have rendered a conceptual photograph of how their disciplines are coping with the impact of information technology by covering policy approaches empirical research and theoretical questions Academy the Internet highlights significant zones of inquiry and provides a critical perspective on the direction each discipline is traveling      **The Invisible Hands of U.S. Commercial Banking Reform** Margaret M. Polski, 2012-12-06 This book is a product of my commitment to developing both theory and practice in political economy I first became interested in economic and institutional change in the commercial banking industry when I took a seminar on financial institutions led by Robert Glauber in the Kennedy School of Government at Harvard University in the spring of 1995 In my experience Bob is one of a handful of teachers who has the verve to challenge and inspire both esoteric and practical inquiry the seminar grappled with practical business and policy problems in a way that posed a significant challenge to existing theories In addition to demonstrating the need to better integrate theory and practice it provided a perspective and an approach that I continue to find useful in research consulting and teaching



Conducting the research for this study has taught me many things about banking regulation and policy making and I am grateful to a very large number of people for their assistance Bob Glauber continues to be generous in discussing the challenges of change in the financial services industry

This book delves into Securing Americas Industrial Strength. Securing Americas Industrial Strength is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Securing Americas Industrial Strength, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Securing Americas Industrial Strength
    - Chapter 2: Essential Elements of Securing Americas Industrial Strength
    - Chapter 3: Securing Americas Industrial Strength in Everyday Life
    - Chapter 4: Securing Americas Industrial Strength in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Securing Americas Industrial Strength. This chapter will explore what Securing Americas Industrial Strength is, why Securing Americas Industrial Strength is vital, and how to effectively learn about Securing Americas Industrial Strength.
  3. In chapter 2, this book will delve into the foundational concepts of Securing Americas Industrial Strength. This chapter will elucidate the essential principles that need to be understood to grasp Securing Americas Industrial Strength in its entirety.
  4. In chapter 3, the author will examine the practical applications of Securing Americas Industrial Strength in daily life. This chapter will showcase real-world examples of how Securing Americas Industrial Strength can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Securing Americas Industrial Strength in specific contexts. The fourth chapter will explore how Securing Americas Industrial Strength is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Securing Americas Industrial Strength. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Securing Americas Industrial Strength.

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