

GOVERNMENT – INDUSTRY PARTNERSHIPS



# **THE ADVANCED TECHNOLOGY PROGRAM CHALLENGES AND OPPORTUNITIES**

BOARD ON SCIENCE, TECHNOLOGY, AND ECONOMIC POLICY

NATIONAL RESEARCH COUNCIL

# The Advanced Technology Program Challenges And Opportunities

**United States. Congress. Senate.  
Committee on Homeland Security and  
Governmental Affairs. Subcommittee  
on Federal Financial Management,  
Government Information, and  
International Security**

## **The Advanced Technology Program Challenges And Opportunities:**

**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

**The Future of the Advanced Technology Program** United States. Congress. House. Committee on Science. Subcommittee on Environment, Technology, and Standards, 2001

**Advanced Technology Program** National Research Council, Technology and Economic Policy, Board on Science, Technology, and Economic Policy, 1999-11-21 The growth in government programs to support high technology industry within national economies and their impact on international science and technology cooperation and on the multilateral trading system are of considerable interest worldwide Accordingly these topics were taken up by STEP in a study carried out in conjunction with the Hamburg Institute for Economic Research and the Institute for World Economics in Kiel One of the principal recommendations for further work emerging from that study was a call for an analysis of the principles of effective cooperation in technology development to include lessons from national and international consortia including eligibility standards and assessments of what new cooperative mechanisms might be developed to meet the challenges of international cooperation in high technology products

**SBIR and the Phase III Challenge of Commercialization** National Research Council, Policy and Global Affairs, Committee on Capitalizing on Science, Technology, and Innovation: An Assessment of the Small Business Innovation Research Program, 2007-04-15 In response to a Congressional mandate the National Research Council conducted a review of the Small Business Innovation Research Program SBIR at the five federal agencies with SBIR programs with budgets in excess of 100 million DOD NIH NASA DOE and NSF The project was designed to answer questions of program operation and effectiveness including the quality of the research projects being conducted under the SBIR program the commercialization of the research and the program's contribution to accomplishing agency missions This report summarizes the presentations at a symposium exploring the effectiveness of Phase III of the SBIR program the commercialization phase during which innovations funded by Phase II awards move from the laboratory into the marketplace No SBIR funds support Phase III instead to commercialize their products small businesses are expected to garner additional funds from private investors the capital markets or from the agency that made the initial award

*Building the Illinois Innovation Economy* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Competing in

the 21st Century: Best Practice in State and Regional Innovation Initiatives,2013-06-06 Responding to the challenges of fostering regional growth and employment in an increasingly competitive global economy many U S states and regions have developed programs to attract and grow companies as well as attract the talent and resources necessary to develop innovation clusters These state and regionally based initiatives have a broad range of goals and increasingly include significant resources often with a sector focus and often in partnership with foundations and universities These are being joined by recent initiatives to coordinate and concentrate investments from a variety of federal agencies that provide significant resources to develop regional centers of innovation business incubators and other strategies to encourage entrepreneurship and high tech development Building the Illinois Innovation Economy is a study of selected state and regional programs to identify best practices with regard to their goals structures instruments modes of operation synergies across private and public programs funding mechanisms and levels and evaluation efforts This report reviews selected state and regional efforts to capitalize on federal and state investments in areas of critical national needs This review includes both efforts to strengthen existing industries as well as specific new technology focus areas such as nanotechnology stem cells and energy in order to improve our understanding of program goals challenges and accomplishments As a part of this review The Committee on Competing in the 21st Century Best Practice in State and Regional Innovation Initiatives is convening a series of public workshops and symposia involving responsible local state and federal officials and other stakeholders These meetings and symposia will enable an exchange of views information experience and analysis to identify best practice in the range of programs and incentives adopted Building the Illinois Innovation Economy summarizes discussions at these symposia fact finding meetings and commissioned analyses of existing state and regional programs and technology focus areas the committee will subsequently produce a final report with findings and recommendations focused on lessons issues and opportunities for complementary U S policies created by these state and regional initiatives

**An Assessment of Federal Funding for Private Research and Development** United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs. Subcommittee on Federal Financial Management, Government Information, and International Security,2006

**Government-Industry Partnerships for the Development of New Technologies** National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,2003-01-01 This report reviews a variety of partnership programs in the United States and finds that partnerships constitute a vital positive element of public policy helping to address major challenges and opportunities at the nexus of science technology and economic growth

**A Review of the New Initiatives at the NASA Ames Research Center** National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,2001-06-23 NASA Ames Research Center in the heart of Silicon Valley is embarking on a program to develop a science and technology park bringing together leading companies and universities to capitalize on Ames exceptional mission and location Other initiatives under

consideration include the integration of SBIR grants with a planned on site incubator virtual collaboration and possibly a new public venture capital program The STEP Board was asked by the NASA Administrator to hold a one day symposium to review these initiatives This report includes commissioned research papers and a summary of the proceedings of the symposium organized in response to the NASA request

**The New Economy and Economic Growth in Europe and the US** David B. Audretsch, Paul J.J. Welfens, 2013-06-29 The strong productivity growth of the US and Scandinavian countries in Europe in the 1990s has raised the question whether the ICT sector information and communication technology that is computers plus telecommunications plus digital services is the new driving engine of high growth in leading OECD countries Judging by the empirical evidence for the US including a new study by McKinsey which gives mixed evidence it is still too early to clearly dismiss Robert G Gordon's hypothesis that the acceleration of US output growth is due to quality problems of price measurement exclusively due to cyclical factors and increased productivity growth in the computer sector The counter hypothesis is associated with research by Stiroh and others who argue that there are positive productivity spillover effects from ICT to other sectors Indeed it is not clear ex ante whether mainly the Old Economy or the so called New Economy stands to benefit most from high innovation rates and strong productivity shifts associated with the spreading of digital services Interestingly the increased economic role of the internet also contributes to the internationalization of the economy since more services have become tradable and growing import competition itself could stimulate productivity growth and thus contribute to higher growth If ICT plays a key role in the new economy there are important implications in the differential degree to which Germany and the US have implemented ICT

Productivity and Cyclicity in Semiconductors National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Measuring and Sustaining the New Economy, 2004-11-20 Hosted by Harvard University's Kennedy School of Government this symposium brought together leading technologists and economists to review technical challenges facing the semiconductor industry the industry's business cycle the interconnections between the two and the implications of growth in semiconductors for the economy as a whole This volume includes a summary of the symposium proceedings and three major research papers Topics reviewed encompass the industry technology roadmap challenges to be overcome to maintain the trajectory of Moore's Law the drivers of the continued growth in productivity in the US economy and economic models for gaining a better understanding of this leading US industry

**Is America losing its lead in high-tech** United States. Congress. House. Committee on Small Business, 2003

Partnering Against Terrorism National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Government-Industry Partnerships for the Development of New Technologies, Charles W. Wessner, 2005-07-08 Terrorism and the measures needed to prevent terrorist attacks pose a central policy challenge for the US To meet this unprecedented challenge the US has great technological assets What is needed are mechanisms to help the government draw on these strengths in a timely and

effective fashion To do so the government needs to reach out to university researchers national laboratories small high tech businesses and leading corporations One of the most effective ways to do this is through public private partnerships To link the lessons of the National Academies study on Government Industry Partnerships to this critical national interest the Academy organized a conference to bring the lessons of its analysis to bear on the war on terror By encouraging policy attention to examples of effective public private partnerships in particular the need for clear goals and regular assessments this report contributes to a better understanding of the potential partnerships to bring new security enhancing technologies and equipment to the market in a cost effective and timely manner

**Software, Growth, and the Future of the U.S Economy** National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,Committee on Measuring and Sustaining the New Economy,Committee on Software, Growth, and the Future of the U.S Economy,2006-04-06 Starting in the mid 1990s the United States economy experienced an unprecedented upsurge in economic productivity Rapid technological change in communications computing and information management continue to promise further gains in productivity a phenomenon often referred to as the New Economy To better understand this phenomenon the National Academies Board on Science Technology and Economic Policy STEP has convened a series of workshops and commissioned papers on Measuring and Sustaining the New Economy This major workshop entitled Software Growth and the Future of the U S Economy convened academic experts and industry representatives from leading companies such as Google and General Motors to participate in a high level discussion of the role of software and its importance to U S productivity growth how software is made and why it is unique the measurement of software in national and business accounts the implications of the movement of the U S software industry offshore and related policy issues

**New York's Nanotechnology Model** Committee on Competing in the 21st Century: Best Practice in State and Regional Innovation Initiatives,Board on Science, Technology, and Economic Policy,Policy and Global Affairs,National Research Council,2013-11-28 New York s Nanotechnology Model Building the Innovation Economy is the summary of a 2013 symposium convened by the National Research Council Board on Science Technology and Economic Policy and members of the Nano Consortium that drew state officials and staff business leaders and leading national figures in early stage finance technology engineering education and state and federal policies to review challenges plans and opportunities for innovation led growth in New York The symposium participants assessed New York s academic industrial and human resources identified key policy issues and engaged in a discussion of how the state might leverage regional development organizations state initiatives and national programs focused on manufacturing and innovation to support its economic development goals This report highlights the accomplishments and growth of the innovation ecosystem in New York while also identifying needs challenges and opportunities New York s Nanotechnology Model reviews the development of the Albany nanotech cluster and its usefulness as a model for innovation based growth while also discussing the New York innovation ecosystem more broadly

*Securing the Future* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2003-06-08 Based on the deliberations of a high level international conference this report summarizes the presentations of an exceptional group of experts convened by Intel's Chairman Emeritus Gordon Moore and SEMATECH's Chairman Emeritus William Spencer The report documents the critical technological challenges facing this key industry and the rapid growth in government industry partnerships overseas to support centers of semiconductor research and production in national economies Importantly the report provides a series of recommendations designed to strengthen U S research in disciplines supporting the continued growth of semiconductor industry an industry which has made major contributions to the remarkable increases in productivity in the U S economy *Science, Technology, and Global Economic Competitiveness* United States. Congress. House. Committee on Science, 2006

**21st Century Innovation Systems for Japan and the United States** National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Comparative Innovation Policy: Best Practice for the 21st Century, 2009-05-15 Recognizing that a capacity to innovate and commercialize new high technology products is increasingly a key for the economic growth in the environment of tighter environmental and resource constraints governments around the world have taken active steps to strengthen their national innovation systems These steps underscore the belief of these governments that the rising costs and risks associated with new potentially high payoff technologies their spillover or externality generating effects and the growing global competition require national R D programs to support the innovations by new and existing high technology firms within their borders The National Research Council's Board on Science Technology and Economic Policy STEP has embarked on a study of selected foreign innovation programs in comparison with major U S programs The 21st Century Innovation Systems for the United States and Japan Lessons from a Decade of Change symposium reviewed government programs and initiatives to support the development of small and medium sized enterprises government university industry collaboration and consortia and the impact of the intellectual property regime on innovation This book brings together the papers presented at the conference and provides a historical context of the issues discussed at the symposium **Science, the Departments of State, Justice, and Commerce, and Related Agencies Appropriations for 2006** United States. Congress. House. Committee on Appropriations. Subcommittee on Science, State, Justice, and Commerce, and Related Agencies, 2005

**New Opportunities in High Technology Industry for Southern California** United States. Congress. House. Committee on Science, Space, and Technology, 1992 *Partnership for Solid-State Lighting* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2002-08-05 As part of its analysis of public private partnerships the Academies convened leading academic researchers government officials and policy makers and representatives from large and small firms to explore the potential contributions technical challenges and opportunities for government industry university collaboration in the area of solid state lighting The workshop report devotes special

attention to the potential for substantial social benefits relating to the environment energy consumption and national security that could arise with the widespread use of solid state lighting technology The workshop also focused on the technical and competitive hurdles currently faced in bringing solid state lighting to market and the potential contributions of a well conceived national consortium for solid state lighting research



## The Enigmatic Realm of **The Advanced Technology Program Challenges And Opportunities**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **The Advanced Technology Program Challenges And Opportunities** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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