



# SECURING THE FUTURE

**Regional and National  
Programs to Support the  
Semiconductor Industry**

# Securing The Future Regional And National Programs To Support The Semiconductor Industry

**Institute of Medicine, National  
Academy of Engineering, National  
Academy of Sciences, Committee on  
Science, Engineering, and Public  
Policy, Committee on Prospering in the  
Global Economy of the 21st Century:  
An Agenda for American Science and  
Technology**

## **Securing The Future Regional And National Programs To Support The Semiconductor Industry:**

*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

*Best Practices in State and Regional Innovation Initiatives* 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,2013-07-04 Most of the policy discussion about stimulating innovation has focused on the federal level This study focuses on the significant activity at the state level with the goal of improving the public s understanding of key policy strategies and exemplary practices Based on a series of workshops and conferences that brought together policymakers along with leaders of industry and academia in a select number of states the study highlights a rich variety of policy initiatives underway at the state and regional level to foster knowledge based growth and employment Perhaps what distinguishes this effort at the state level is most of all the high degree of pragmatism Operating out of necessity innovation policies at the state level often involve taking advantage of existing resources and recombining them in new ways forging innovative partnerships among universities industry and government organizations growing the skill base and investing in the infrastructure to develop new technologies and new industries Many of these initiatives are being guided by leaders from the private sector and universities The objective of Best Practices in State and Regional Innovation Initiatives Competing in the 21st Century is not to do an empirical review of the inputs and outputs of various state programs Nor is it to evaluate which programs are superior Indeed some of the notable successes such as the Albany nanotechnology cluster represent a leap of leadership investment and sustained commitment that has had remarkable results in an industry that is actively pursued by many countries The study s goal is to illustrate the approaches taken by a variety of highly diverse states as they confront the increasing challenges of global competition for the industries and jobs of today and tomorrow

*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

*Enhancing Productivity Growth in the Information Age* National Research Council,Policy and Global

Affairs, Board on Science, Technology, and Economic Policy, Committee on Measuring and Sustaining the New Economy, 2007-01-19 This report summarizes a workshop Strengthening Science Based Decision Making Implementing the Stockholm Convention on Persistent Organic Pollutants held June 7 10 2004 in Beijing China The presentations and discussions summarized here describe the types of scientific information necessary to make informed decisions to eliminate the production and use of Persistent Organic Pollutants POPs banned under the Stockholm Convention sources of information scientifically informed strategies for eliminating POPs elements of good scientific advice such as transparency peer review and disclosure of conflicts of interest and information dealing with POPs that decision makers need from the scientific community including next steps to make such science available and ensure its use on a continuing basis *Rising to the Challenge* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Comparative National Innovation Policies: Best Practice for the 21st Century, 2012-08-06 America's position as the source of much of the world's global innovation has been the foundation of its economic vitality and military power in the post war No longer is U S pre eminence assured as a place to turn laboratory discoveries into new commercial products companies industries and high paying jobs As the pillars of the U S innovation system erode through wavering financial and policy support the rest of the world is racing to improve its capacity to generate new technologies and products attract and grow existing industries and build positions in the high technology industries of tomorrow *Rising to the Challenge* U S Innovation Policy for Global Economy emphasizes the importance of sustaining global leadership in the commercialization of innovation which is vital to America's security its role as a world power and the welfare of its people The second decade of the 21st century is witnessing the rise of a global competition that is based on innovative advantage To this end both advanced as well as emerging nations are developing and pursuing policies and programs that are in many cases less constrained by ideological limitations on the role of government and the concept of free market economics The rapid transformation of the global innovation landscape presents tremendous challenges as well as important opportunities for the United States This report argues that far more vigorous attention be paid to capturing the outputs of innovation the commercial products the industries and particularly high quality jobs to restore full employment America's economic and national security future depends on our succeeding in this endeavor **21st Century Manufacturing** National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on 21st Century Manufacturing: The Role of the Manufacturing Extension Partnership Program of the National Institute of Standards and Technology, 2013-09-27 The Manufacturing Extension Partnership MEP a program of the U S Department of Commerce's National Institute of Standards and Technology has sought for more than two decades to strengthen American manufacturing It is a national network of affiliated manufacturing extension centers and field offices located throughout all fifty states and Puerto Rico Funding for MEP Centers comes from a combination of federal state local and private resources Centers work

directly with manufacturing firms in their state or sub state region MEP Centers provide expertise services and assistance directed toward improving growth supply chain positioning leveraging emerging technologies improving manufacturing processes work force training and the application and implementation of information in client companies through direct assistance provided by Center staff and from partner organizations and third party consultants 21st Century Manufacturing seeks to generate a better understanding of the operation achievements and challenges of the MEP program in its mission to support strengthen and grow U S manufacturing This report identifies and reviews similar national programs from abroad in order to draw on foreign practices funding levels and accomplishments as a point of reference and discusses current needs and initiatives in light of the global focus on advanced manufacturing

*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

**Building the 21st Century** National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,Committee on Comparative National Innovation Policies: Best Practice for the 21st Century,2011-08-19 The global economy is characterized by increasing locational competition to attract the resources necessary to develop leading edge technologies as drivers of regional and national growth One means of facilitating such growth and improving national competitiveness is to improve the operation of the national innovation system This involves national technology development and innovation programs designed to support research on new technologies enhance the commercial return on national research and facilitate the production of globally competitive products Understanding the policies that other nations are pursuing to become more innovative and to what effect is essential to understanding how the nature and terms of economic competition are shifting Building the 21st Century U S China Cooperation on Science Technology and Innovation studies

selected foreign innovation programs and comparing them with major U S programs This analysis of Comparative Innovation Policy includes a review of the goals concept structure operation funding levels and evaluation of foreign programs designed to advance the innovation capacity of national economies and enhance their international competitiveness This analysis focuses on key areas of future growth such as renewable energy among others to generate case specific recommendations where appropriate

Understanding Research, Science and Technology Parks 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,2009-10-08 Many nations are currently adopting a variety of directed strategies to launch and support research parks often with significant financial commitments and policy support By better understanding how research parks of other nations operate we can seek to improve the scale and contributions of parks in the U S To that end the National Academies convened an international conference on global best practices in research parks This volume a report of the conference includes discussion of the diverse roles that research parks in both universities and laboratories play in national innovation systems The presentations identify common challenges and demonstrate substantial differences in research park programs around the world

Innovative Flanders 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,2008-11-16 Recognizing that innovation is the key to international competitiveness in the 21st century policymakers around the world are seeking more effective ways to translate scientific and technological knowledge into new products processes and businesses They have initiated major programs often with substantial funding that are designed to attract nurture and support innovation and high technology industries within their national economies To help U S policymakers become more aware of these developments a committee of the National Academies Board on Science Technology and Economic Policy undertook a review of the goals concept structure operation funding levels and evaluation efforts of significant innovation programs around the world As a part of this effort the committee identified Flanders a region of Belgium with substantial autonomy which is recognized for its comprehensive approach to innovation Based on initial meetings in Washington and Brussels and with the endorsement of Flanders Vice Minister President Fientje Moerman it was agreed to organize a conference that would review regional innovation policies in the context of the policies and programs of the Flanders government and their interaction with those of the European Union This book provides a summary of that symposium

**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,2005-08-08 Terrorism and the measures needed to prevent terrorist attacks pose a central policy challenge for the U S To meet this unprecedented challenge the U S 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

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world s most successful advanced technology agency Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume It reviews DARPA s unique role in the U S innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The U S Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the U S Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other U S agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency s founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

**Productivity and**

**Cyclicalities 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 U.S. economy and economic models for gaining a better understanding of this leading U.S. industry *Innovation Policies for the 21st Century* 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, 2007-07-28 To mark the opening of a study of Comparative Innovation Policy Best Practice for the 21st Century the Board on Science, Technology, and Economic Policy STEP convened a symposium providing an overview of areas to be examined in the study and topics requiring further policy attention The event highlighted the policies and programs of leading nations and provided valuable insights into some of the common challenges of growing and supporting high technology industry and the commercialization of public investments in R.D. This report contains a summary of the symposium proceedings and an introduction analyzing the issues and placing them in a broader policy context

**Rising Above the Gathering Storm** Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Prospering in the Global Economy of the 21st Century: An Agenda for American Science and Technology, 2007-03-08 In a world where advanced knowledge is widespread and low cost labor is readily available U.S. advantages in the marketplace and in science and technology have begun to erode A comprehensive and coordinated federal effort is urgently needed to bolster U.S. competitiveness and pre-eminence in these areas This congressionally requested report by a pre-eminent committee makes four recommendations along with 20 implementation actions that federal policy makers should take to create high quality jobs and focus new science and technology efforts on meeting the nation's needs especially in the area of clean affordable energy 1 Increase America's talent pool by vastly improving K-12 mathematics and science education 2 Sustain and strengthen the nation's commitment to long term basic research 3 Develop recruit and retain top students scientists and engineers from both the U.S. and abroad and 4 Ensure that the United States is the premier place in the world for innovation Some actions will involve changing existing laws while others will require financial support that would come from reallocating existing budgets or increasing them *Rising Above the Gathering Storm* will be of great interest to federal and state government agencies educators and schools public decision makers research sponsors regulatory analysts and scholars

**Waiting for Sputnik** James A. Lewis, 2006-03-27 **Strengthening American Manufacturing** National Research

Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on 21st Century Manufacturing: The Role of the Manufacturing Extension Partnership Program of the National Institute of Standards and Technology, 2013-09-19 The Manufacturing Extension Partnership MEP a program of the U S Department of Commerce s National Institute of Standards and Technology NIST has sought for more than two decades to strengthen American manufacturing It is a national network of affiliated manufacturing extension centers and field offices located throughout all fifty states and Puerto Rico Qualified MEP Centers work directly with small and medium manufacturing firms in their state or sub state region providing expertise services and assistance directed to foster growth improve supply chain positioning leverage emerging technologies upgrade manufacturing processes develop work force training and apply and implement new information Strengthening American Manufacturing The Role of the Manufacturing Extension Partnership is the summary of a symposium convened to review current operations and some of the recent MEP initiatives in the broader context of global manufacturing trends and the opportunities for high value manufacturing companies Business leaders academic experts and state and federal officials addressed the metrics and impacts of MEP and identified potential areas of improvement The meeting drew attention to the scale and focuses of MEP and highlighted the role it plays in supporting and enabling U S manufacturers to compete more effectively in the global marketplace This report includes an overview of key issues raised at this workshop and a detailed summary of the conference presentations *Critical Technology Accessibility* National Research Council, Division on Engineering and Physical Sciences, Committee on Critical Technology Accessibility, 2006-05-15 In 2003 the Defense Intelligence Agency asked the NRC to form a standing committee to help develop study topics about technology warning One issue that was identified was the growing dependence on foreign suppliers of critical technology as a result of the increase in globalization of economic activity Two important questions emerged for study what is the risk of denial of critical products from foreign sources and what must the United States do to assure access to future critical products and technologies This report presents an assessment addressing those two questions It also provides an analysis of a strategic approach to manage the consequences of this trend towards increased globalization Finally the report offers a set of recommendations to implement this strategy and to increase assurance of access to critical technologies **The East Asian Computer Chip War** Ming-chin Monique Chu, 2013-12-04 The semiconductor industry is a vital industry for military establishments worldwide and the control of or loss of control of this key industry has enormous strategic implications This book focuses on the globalization of the strategic semiconductor industry and the security ramifications of this process It examines in particular the migration of the Taiwanese chip industry to China as part of the globalization of production processes and the extent to which such a globalization process poses security challenges to the United States China and Taiwan Transcending disciplinary boundaries between international political economy security studies and the history of science and technology this multidisciplinary work provides an in depth understanding of the globalization security nexus

and disentangles the key policy issues connected to a potential explosive flashpoint in world politics today     *Deconstructing the Computer* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Measuring and Sustaining the New Economy, Committee on Deconstructing the Computer, 2005-10-28

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 continues 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 *Deconstructing the Computer*, brought together leading industrialists and academic researchers to explore the contribution of the different components of computers to improved price performance and quality of information systems. The objective was to help understand the sources of the remarkable growth of American productivity in the 1990s, the relative contributions of computers and their underlying components, and the evolution and future contributions of the technologies supporting this positive economic performance.

## **Securing The Future Regional And National Programs To Support The Semiconductor Industry** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Securing The Future Regional And National Programs To Support The Semiconductor Industry**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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### **Securing The Future Regional And National Programs To Support The Semiconductor Industry Introduction**

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