



This study seeks to reinforce the understanding of the interplay between the distinct policy domains of health, trade and intellectual property, and of how they affect medical innovation and access to medical technologies. The second edition comprehensively reviews new developments in key areas since the initial launch of the study in 2013.

For the past three-quarters of a century, the United States has led the world in technological innovation and development. The nation now risks falling behind its competitors, principally China. The United States needs to advance a national innovation strategy to ensure it remains the predominant power in a range of emerging technologies. Innovation and National Security: Keeping Our Edge outlines a strategy based on four pillars: restoring federal funding for research and development, attracting and educating a science and technology workforce, supporting technology adoption in the defense sector, and bolstering and scaling technology alliances and ecosystems. Failure could lead to a future in which rivals strengthen their militaries and threaten U.S. security interests, and new innovation centers replace the United States as the source of original ideas and inspiration for the world.

The Power Law

Innovation and National Security

How To Be Innovative: Early-stage Innovation For Scientists, Technologists And Others - From Idea To Proof-of-concept

Political Development and Innovation in Eastern Europe

Empowering European Innovators : Business Acceleration Services : Corporate Days 2017-18

Impact Through Innovation in SMEs with the European Innovation Council Pilot

Reaping the Benefits of Genomic and Proteomic Research

Nearly 20 million nuclear medicine procedures are carried out each year in the United States alone to diagnose and treat cancers, cardiovascular disease, and certain neurological disorders. Many of the advancements in nuclear medicine have been the result of research investments made during the past 50 years where these procedures are now a routine part of clinical care. Although nuclear medicine plays an important role in biomedical research and disease management, its promise is only beginning to be realized. Advancing Nuclear Medicine Through Innovation highlights the exciting emerging opportunities in nuclear medicine, which include assessing the efficacy of new drugs in development, individualizing treatment to the patient, and understanding the biology of human diseases. Health care and pharmaceutical professionals will be most interested in this book's examination of the challenges the field faces and its recommendations for ways to reduce these impediments.

'The European Advisory Committee on Statistical Information in the Economic and Social Spheres (CEIES) was created in 1992 with the explicit task of assisting the European Council and the Commission (i.e. Eurostat) in the coordination of the objectives of the EU statistical information policy, taking into account user requirements and the costs borne by the information producers. The CEIES is comparable to the statistical councils existing at the national level in that the majority of the members are 'independent' and appointed from among leading representatives of the various economic and social categories and scientific circles. ... This publication brings together the papers presented at the seminar, the proceedings of the discussions and the conclusions drawn by the chairman of the Subcommittee on social statistics, which organized the seminar'.

The European Innovation Council pilot (EIC Pilot) supports top-class innovators, entrepreneurs, small companies and scientists with bright ideas and the ambition to scale up internationally. The EIC Pilot brings together the parts of Horizon 2020 that provide funding, advice and networking opportunities for those at cutting edge of innovation.

Innovation Policies for the 21st Century: Report of a Symposium

Venture Capital and the Making of the New Future

Interim Report

Exploring the Role of Accreditation in Enhancing Quality and Innovation in Health Professions Education

New Strategies for New Challenges

Innovation in Ireland - Case Studies

The National Council for Innovation in Education--its Structure and Work

The EU has been the region of the world where the most climate policies have been implemented, and where practical policy experimentation in the field of the environment and climate change has been taking place at a rapid pace over the last twenty-five years. This has led to considerable success in reducing pollution, decoupling emissions from economic growth and fostering global technological leadership. The objective of the book is to explain the EU's climate policies in an accessible way, to demonstrate the step-by-step approach that has been used to develop these policies, and the ways in which they have been tested and further improved in the light of experience. The book shows that there is no single policy instrument that can bring down greenhouse gas emissions, but the challenge has been to put a jigsaw of policy instruments together that is coherent, delivers emissions reductions, and is cost-effective. The book differs from existing books by the fact it covers the EU's emissions trading system, the energy sector and other economic sectors, including their development in the context of international climate policy. Set against the backdrop of the 2015 UN Climate Change conference in Paris, this accessible book will be of great relevance to students, scholars and policy makers alike.

Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. Capturing Change in Science, Technology, and Innovation assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The recommendations offered in Capturing Change in Science, Technology, and Innovation are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

Americans praise medical technology for saving lives and improving health. Yet, new technology is often cited as a key factor in skyrocketing medical costs. This volume, second in the Medical Innovation at the Crossroads series, examines how economic incentives for innovation are changing and what that means for the future of health care. Up-to-date with a wide variety of examples and case studies, this book explores how payment, patent, and regulatory policies affect the introduction and use of new pharmaceuticals, medical devices, and surgical procedures. The volume also includes detailed comparisons of policies and patterns of technological innovation in Western Europe and Japan. This fact-filled and practical book will be of interest to economists, policymakers, health administrators, health care practitioners, and the concerned public.

The Learning Healthcare System

Innovation and Entrepreneurship

A Single Market for Intellectual Property Rights

Intellectual Property Rights, Innovation, and Public Health

Advancing Nuclear Medicine Through Innovation

The Changing Economics of Medical Technology

Innovation Statistics, More Than R&D Indicators

Information technology accounts for over one-third of recent U.S. GDP growth and nearly two-thirds of corporate capital investment. "The New Economy" appears omnipresent, but little is actually known about its workings. This seminal volume brings together the research and critical thinking of many of the world's top macro and micro economists to provide a unique, multifaceted perspective. Through the use of detailed, up-to-date country and industry studies, this book provides the most authoritative and detailed analysis ever assembled into the causes of technological innovation and its relationship to economic performance. The country studies cover the United States, Japan, Germany, France, the United Kingdom, and the Nordic states. Nine industry studies examine the Internet, computers and semiconductors, banking, securities trading, venture capital, energy, agricultural biotechnology, pharmaceutical biotechnology, and automobiles. Commissioned and brought together for the research project by the world-renowned Council on Foreign Relations, the authors have produced one of the most important compendia in applied economics to be published in recent times. The contributors are Charles Calomiris, Ian Domowitz, Robert Evenson, Charles Fine, Robert Gordon, Richard Langlois, Josh Lerner, Markku Malkamäki, Patrick Messerlin, Joel Mokyr, David Mowery, Richard R. Nelson, Stephen Nickell, Gary Pisano, Adam Posen, Daniel Raff, Horst Siebert, Timothy Simcoe, Benn Steil, Michael Stolpe, John Van Reenen, David Victor, and Matti Virén.

This important book looks at a broad spectrum of biotech research efforts and their applications to the aquaculture industry. Aquaculture Biotechnology provides key reviews that look at the application of genetic, cellular, and molecular technologies to enable fish farmers to produce a more abundant, resilient, and healthier supply of seafood. Aquaculture Biotechnology is divided into seven sections and nineteen chapters that cover topics ranging from broodstock improvement to fish health and gene transfer. With chapters provided by leading researchers and skillfully edited by top scientists in the field, this will be a valuable tool to researchers, producers, and students interested in better understanding this dynamic field of aquaculture.

Comparative Analyses of OECD Countries, Conclusions for Switzerland : on Behalf of the Swiss Science Council, Committee for Technology Policy

Technological Innovation and Economic Performance

Workshop Summary