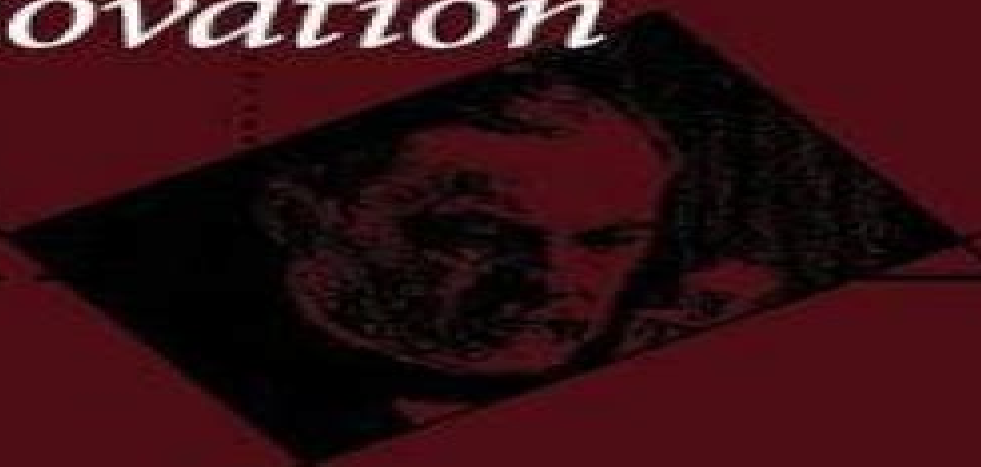


# PASTEUR'S QUADRANT

*Basic Science  
and Technological  
Innovation*



*Donald E. Stokes*

# Pasteurs Quadrant Basic Science And Technological Innovation

**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**

## **Pasteurs Quadrant Basic Science And Technological Innovation:**

*Pasteur's Quadrant* Donald E. Stokes, 2011-03-01 Over fifty years ago Vannevar Bush released his enormously influential report *Science the Endless Frontier* which asserted a dichotomy between basic and applied science This view was at the core of the compact between government and science that led to the golden age of scientific research after World War II a compact that is currently under severe stress In this book Donald Stokes challenges Bush's view and maintains that we can only rebuild the relationship between government and the scientific community when we understand what is wrong with that view Stokes begins with an analysis of the goals of understanding and use in scientific research He recasts the widely accepted view of the tension between understanding and use citing as a model case the fundamental yet use inspired studies by which Louis Pasteur laid the foundations of microbiology a century ago Pasteur worked in the era of the second industrial revolution when the relationship between basic science and technological change assumed its modern form Over subsequent decades technology has been increasingly science based But science has been increasingly technology based with the choice of problems and the conduct of research often inspired by societal needs An example is the work of the quantum effects physicists who are probing the phenomena revealed by the miniaturization of semiconductors from the time of the transistor's discovery after World War II On this revised interactive view of science and technology Stokes builds a convincing case that by recognizing the importance of use inspired basic research we can frame a new compact between science and government His conclusions have major implications for both the scientific and policy communities and will be of great interest to those in the broader public who are troubled by the current role of basic science in American democracy *Pasteur's Quadrant*

Donald E. Stokes, 1997 The author recasts the widely accepted view of the tension between scientific understanding and use and builds a convincing case that by recognizing the importance of use inspired basic research we can frame a new contract between science and government

**Pasteur's Quadrant** Donald E. Stokes, 2011-03-01 Over fifty years ago Vannevar Bush released his enormously influential report *Science the Endless Frontier* which asserted a dichotomy between basic and applied science This view was at the core of the compact between government and science that led to the golden age of scientific research after World War II a compact that is currently under severe stress In this book Donald Stokes challenges Bush's view and maintains that we can only rebuild the relationship between government and the scientific community when we understand what is wrong with that view Stokes begins with an analysis of the goals of understanding and use in scientific research He recasts the widely accepted view of the tension between understanding and use citing as a model case the fundamental yet use inspired studies by which Louis Pasteur laid the foundations of microbiology a century ago Pasteur worked in the era of the second industrial revolution when the relationship between basic science and technological change assumed its modern form Over subsequent decades technology has been increasingly science based But science has been increasingly technology based with the choice of problems and the conduct of research often inspired by societal needs An

example is the work of the quantum effects physicists who are probing the phenomena revealed by the miniaturization of semiconductors from the time of the transistor's discovery after World War II. On this revised interactive view of science and technology, Stokes builds a convincing case that by recognizing the importance of use-inspired basic research, we can frame a new compact between science and government. His conclusions have major implications for both the scientific and policy communities and will be of great interest to those in the broader public who are troubled by the current role of basic science in American democracy.

Doing Capitalism in the Innovation Economy William H. Janeway, 2012-10-08 A unique insight into the interaction between the state, financiers, and entrepreneurs in the modern innovation economy.

*Conducting Educational Design Research* Susan McKenney, Thomas Reeves, 2018-09-03 Educational design research blends scientific investigation with the systematic development and implementation of solutions to educational challenges. Empirical inquiry is conducted in real learning settings, not laboratories, to craft effective solutions to the complex challenges facing educational practitioners. At the same time, the research is carefully structured to produce theoretical understanding that can serve the work of others. *Conducting Educational Design Research* 2nd Edition has been written to support graduate students as well as experienced researchers who are new to this approach. Part I describes the origins, outcomes, and generic approach. Part II discusses the core processes of the generic approach in detail. Part III recommends how to propose, report, and advance educational design research. In addition to expanded treatment of research goals and practicalities, more examples and attention to design-based implementation research, this new edition features enhanced guidance. For each of the four core processes, this volume offers assessment tools, detailed behind-the-scenes descriptions of actual project work, examples of how specific theories have been used to enrich the work. For decades, policies for educational research worldwide have swung back and forth between demanding rigor above all other concerns and increasing emphasis on impact. These two qualities, rigor and impact, need not be mutually exclusive. This volume supports readers in grasping and realizing the potential of educational design research. It demonstrates how rigorous and relevant investigation can yield both theoretical understanding and solutions to urgent educational challenges.

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

**Patent Intensity and Economic Growth** Daniel Benoliel,2017-12-14 Economic growth has traditionally been attributed to the increase in national production arising from technological innovation Using a panel of seventy nine countries bridging the North South divide Patent Intensity and Economic Growth is an important empirical study on the uncertain relationship between patents and economic growth It considers the impact of one size fits all patent policies on developing countries and their innovation based economic growth including those policies originating from the World Intellectual Property Organization the World Trade Organization and the World Health Organization as well as initiatives derived from the TRIPS Agreement and the Washington Consensus This book argues against patent harmonization across countries and provides an analytical framework for country group coalitioning on policy at UN level It will appeal to scholars and students of patent law national and international policy makers venture capitalist investors and research and development managers as well as researchers in intellectual property innovation and economic growth

**Knowledge Governance** Reasserting the Public Interest,Anna Célia Castro,Rainer Kattel,2014-10-01 This book argues that the current international intellectual property rights regime led by the World Trade Organization WTO has evolved over the past three decades toward overemphasizing private interests and seriously hampering public interests in access to knowledge and innovation diffusion This approach concentrates on tangible and codified knowledge creation and diffusion in research and development R D that can be protected via patents and other intellectual property rules and regulations In terms of global

policy initiatives however it is becoming increasingly clear that the WTO in particular is mostly a conflict resolution facility rather than a global governance body able to generate cooperation and steer international coordinated policy action At the same time rent extraction and profits streaming from legal hyperprotection have become pervasively important for firm strategies to compete in a globalized marketplace Knowledge Governance Reasserting the Public Interest offers a novel approach knowledge governance in order to move beyond the current regime

**Winnebagos on Wednesdays** Scott Cowen, 2018-02-20 Why a strong mission and inspired leadership are vital to the success of America's colleges and universities In 1998 soon after assuming the presidency of Tulane University Scott Cowen was confronted with a setback Despite an undefeated football season and putting the best financial deal on the table Cowen was unable to retain the school's football coach The coach wanted something the president didn't have a football program so popular as the coach put it that fans would line up their Winnebagos on Wednesdays in anticipation of Saturday games In that moment Cowen improbably found himself in the entertainment business and his university was deemed wanting At a time when schools seem overrun by sports programs spiraling costs and absurd ranking systems Winnebagos on Wednesdays argues that colleges and universities of all stripes and sizes can achieve their educational aims if they possess two things visionary leadership and a strong mission Cowen named one of the nation's top university presidents by Time magazine in 2009 gives a behind the scenes look at the critical demands faced by many education leaders He profiles a range of situations from how Diana Natalicio of the University of Texas at El Paso expanded a school serving a specific demographic into an academic powerhouse to how Michael Sorrell shifted Paul Quinn College's mission to urban entrepreneurship in order to save the institution Cowen also draws from his own hard won experiences including the rebuilding of Tulane and New Orleans after Hurricane Katrina and the decision to maintain Tulane's football program He shows how crucial choices in tough situations shape organizations for better or ill A sweeping overview of the higher education landscape Winnebagos on Wednesdays demonstrates that the courage of transformative leadership is essential for colleges and universities to remain vital

**When Innovation Moves at Digital Speed** MIT Sloan Management Review, 2019-03-26 Practical advice from experts on how to create manage measure and improve innovation in and for today's digital markets All organizations grapple with what digitalization means for their business and in particular how digital forces will drive their approaches to innovation But very few organizations have clearly defined the scale speed and scope of their engagement with the digital world These essays from the pages of the preeminent journal MIT Sloan Management Review offer practical advice from experts on how to create facilitate and manage innovation in and for today's digital markets The essays emphasize the power of intersections where different mindsets and skills collide These connections can be external LEGO for example has engaged more than 100 000 adult fans in user communities or internal as when brokers connectors and energizers act within organizations Contributors stress the value of action over analysis citing examples that affirm the power of trial and error experimentation

They demonstrate that innovation success requires thinking beyond technology Innovation is not created by white coated scientists in a lab it is not the job of the few but of the many And finally the contributors warn that the greatest enemy lies within innovators often encounter fierce internal resistance They consider innovations in the innovation process itself describing the promise and pitfalls of design thinking and offering advice on how to manage the tension between new and existing business models Innovation is not a magical act practiced by a select few with rare gifts Innovation is a discipline that can be measured managed and improved When Innovation Moves at Digital Speed provides practical guidance for innovation success Contributors Daniel Amaral Jamie Anderson Scott D Anthony Yun Mi Antorini Michael Arena Tormod Askildsen Michael Ball Thomas Bartman Jennie Bj rk Marcel Bogers Anna Brattstr m Clayton M Christensen Edvandro Carlos Conforto Rob Cross Charles Dhanaraj Thomas Fink Nicolai J Foss Johan Frishammar Johann Harnoss Srivardhini K Jha L le Kesebi Rishikesha T Krishnan Martin Kupp Sean Looram Mats Magnusson Ann Majchrzak Arvind Malhotra James Morgan Albert M Mu iz Jr Ramiro Palma Ishwardutt Parulkar Eric Rebentisch J rg Reckhenrich Martin Reeves Anders Richtn r Dave Rochlin Duncan Simester Jonathan Sims Joseph V Sinfield Durward K Sobek II Freddy Solis Kristian J Sund Mary Uhl Bien Derek van Bever J Andrei Villarroel Amy Webb Harnessing Science and Technology for America's Economic Future National Research Council,Policy and Global Affairs,Office of Special Projects Policy Division,National Forum on Science and Technology Goals,Committee on Harnessing Science and Technology for America's Economic Future,1999-08-09 This book is largely based on a 1998 forum where participants from across America discussed ways to improve the utilization of science and technology for economic growth over the next several decades A steering committee of prominent Americans co chaired by SEMATECH Chairman William Spencer and former Pennsylvania Governor and U S Attorney General Dick Thornburgh developed consensus recommendations from the forum input Harnessing Science and Technology for America s Economic Future puts forward long term goals for the nation and associated action items It includes background papers and talks from the forum covers the economics of science and technology based growth industry trends the role of government education research universities and the international context Unifying Physics of Accelerators, Lasers and Plasma Andrei Seryi,2015-07-29 Unifying Physics of Accelerators Lasers and Plasma introduces the physics of accelerators lasers and plasma in tandem with the industrial methodology of inventiveness a technique that teaches that similar problems and solutions appear again and again in seemingly dissimilar disciplines This unique approach builds bridges and enhances connection Great Lakes Regional Collaboration Strategy : can it be implemented to restore and protect the Great Lakes? : hearing , *International Public Goods and Transfer of Technology Under a Globalized Intellectual Property Regime* Keith E. Maskus,Jerome H. Reichman,2005-06-08 Distinguished economists political scientists and legal experts discuss the implications of the increasingly globalized protection of intellectual property rights for the ability of countries to provide their citizens with such important public goods as basic research education public health and environmental protection Such

items increasingly depend on the exercise of private rights over technical inputs and information goods which could usher in a brave new world of accelerating technological innovation. However, higher and more harmonized levels of international intellectual property rights could also throw up high roadblocks in the path of follow-on innovation competition and the attainment of social objectives. It is at best unclear who represents the public interest in negotiating forums dominated by powerful knowledge cartels. This is the first book to assess the public processes and inputs that an emerging transnational system of innovation will need to promote technical progress, economic growth, and welfare for all participants. Useful Research Susan Albers Mohrman, Ed Lawler, 2011-04-04. For decades there has been an ongoing at times heated debate over how relevant to real world concerns organizational research should be. The contributors to this book deviate from the orthodoxy of traditional positivistic research, arguing that the true test of whether knowledge is useful to practice is not whether it is rigorous but whether it is rigorous and results in improved organizational effectiveness. The contributors were selected for their demonstrated ability to conduct useful research and their distinguished academic careers. Part I features researchers who describe the choices they make and the tactics they employ to ensure that their work advances both theory and practice. In part II, five highly respected researchers reflect on how they were able to have a broad impact on practice and still maintain academic rigor. Part III describes pathways to bring academic knowledge to practice, working with consultancies, executive PhD programs, OD specialists, and professional associations, as well as framing academic concepts in ways that are attention grabbing, memorable, and credible to practitioners. Part IV looks at the prospects for doing useful research in traditional academic settings like business schools and publishing it in peer-reviewed journals. Finally, Part V sums up the themes of the book and the challenges and opportunities facing researchers who aspire to do research that advances both theory and practice. Allocating Federal Funds for Science and Technology United States. Congress. House. Committee on Science, 1996. The Oxford Handbook of Open Innovation Henry Chesbrough, Agnieszka Radziwon, Wim Vanhaverbeke, Joel West, 2024. This Handbook seeks to be the definitive reference for the large and growing field of Open Innovation. A comprehensive collection of short and authoritative chapters, the volume summarizes the most vital research published in Open Innovation. It is an essential reference for seasoned scholars, a welcome introduction for junior scholars, and a kick-start package for undergraduate and MBA students. Four editors, 75 reviewers, and 136 contributors collaboratively developed 57 chapter handbook chapters. These present the current state of the art, featuring academic theory and managerial practice, as well as the outlook for how open innovation should be further developed. The empirical, conceptual, and practical insights of the handbook highlight the importance of strengthening practice-inspired research and purposeful knowledge exchanges between individuals, organizations, and ecosystems. 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,2007-04-08 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 EPSA Epistemology and Methodology of Science Mauricio Suárez, Mauro Dorato, Miklós Rédei,2010-01-14 These volumes collect a selection of papers presented at the Founding Conference of the European Philosophy of Science Association meeting in Madrid The volumes provide an excellent overview of the state of the art in philosophy of science as practised nowadays in different European countries *Commercialization and Transfer of Technology* Almas Heshmati, Young-Bock Sohn, Young-Roak Kim,2007 This book serves as an international forum focusing on the transfer of technology and the exchange of ideas that are informative and enhances the practice of technology transfer to developing and newly industrialised countries In particular the focus is on practitioners views management practices and strategies toward technology transfer and evaluation of their outcomes The internal organisation and external environment that affects these practices and strategies including public policy developments regulatory and legal issues and development of global trends are also discussed by the experts in the field in different forms and at different levels

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