

THE IMPACT OF ACADEMIC RESEARCH ON INDUSTRIAL PERFORMANCE

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The Impact Of Academic Research On Industrial Performance

**Paul P. Maglio, Cheryl A.
Kieliszewski, James C. Spohrer**



The Impact Of Academic Research On Industrial Performance:

The Impact of Academic Research on Industrial Performance National Academy of Engineering, Committee on the Impact of Academic Research on Industrial Performance, 2003-11-06 Drawing on the findings of sector specific workshops e mail surveys research literature expert testimony and committee and panel members expertise this National Academy of Engineering study assesses the qualitative impact of academic research on five industries network systems and communications medical devices and equipment aerospace transportation distribution and logistics services and financial services The book documents the range and significance of academic research contributions to the five industries comparing the importance of different types of contributions the multi and interdisciplinary nature of these contributions and the multiple vectors by which academic research is linked to each industry The book calls for action to address six cross cutting challenges to university industry interactions the growing disciplinary and time horizon related imbalances in federal R D funding barriers to university industry interaction in service industries the critical role of academic research in the advancement of information technology the role of academic research in the regulation of industry the impact of technology transfer activities on core university research and education missions and the search for new pathways and mechanisms to enhance the contributions of academic research to industry The book also includes findings and recommendations specific to each industry

The Impact of Academic Research on Industrial Performance National Academy of Engineering, Committee on the Impact of Academic Research on Industrial Performance, 2003-10-06 Drawing on the findings of sector specific workshops e mail surveys research literature expert testimony and committee and panel members TM expertise this National Academy of Engineering study assesses the qualitative impact of academic research on five industries network systems and communications medical devices and equipment aerospace transportation distribution and logistics services and financial services The book documents the range and significance of academic research contributions to the five industries comparing the importance of different types of contributions the multi and interdisciplinary nature of these contributions and the multiple vectors by which academic research is linked to each industry The book calls for action to address six cross cutting challenges to university industry interactions the growing disciplinary and time horizon related imbalances in federal R D funding barriers to university industry interaction in service industries the critical role of academic research in the advancement of information technology the role of academic research in the regulation of industry the impact of technology transfer activities on core university research and education missions and the search for new pathways and mechanisms to enhance the contributions of academic research to industry The book also includes findings and recommendations specific to each industry

The Impact of Academic Research on Industrial Performance ,2003
R&D Management and Technology Commercialization Orestis Georgiou, Mykola Maksymenko, Stephen Russo, 2025-05-26
Industrial spending for research and development R D initiatives is growing globally year on year from both public and

private investments As this spending grows so does the complexity of R D organizations and processes Hence high quality R D management becomes increasingly important to streamline R D processes Intended for R D managers and technology leaders in small medium and large enterprises this book addresses questions such as how to align R D with broader organizational needs best practices for R D hiring and team building how to select which metrics to be measured and the process of moving a technology from the laboratory to the market

Managing University Intellectual Property in the Public Interest National Research Council,Policy and Global Affairs,Committee on Science, Technology, and Law,Board on Science, Technology, and Economic Policy,Committee on Management of University Intellectual Property: Lessons from a Generation of Experience, Research, and Dialogue,2011-03-28 Thirty years ago federal policy underwent a major change through the Bayh Dole Act of 1980 which fostered greater uniformity in the way research agencies treat inventions arising from the work they sponsor Before the Act if government agencies funded university research the funding agency retained ownership of the knowledge and technologies that resulted However very little federally funded research was actually commercialized As a result of the Act s passage patenting and licensing activity from such research has accelerated Although the system created by the Act has remained stable it has generated debate about whether it might impede other forms of knowledge transfer Concerns have also arisen that universities might prioritize commercialization at the expense of their traditional mission to pursue fundamental knowledge for example by steering research away from curiosity driven topics toward applications that could yield financial returns To address these concerns the National Research Council convened a committee of experts from universities industry foundations and similar organizations as well as scholars of the subject to review experience and evidence of the technology transfer system s effects and to recommend improvements The present volume summarizes the committee s principal findings and recommendations

Open Services Innovation Henry Chesbrough,2011-01-18 The father of open innovation is back with his most significant book yet Henry Chesbrough s acclaimed book Open Innovation described a new paradigm for management in the 21st century Open Services Innovation offers a new approach that demonstrates how open innovation combined with a services approach to business is an effective and powerful way to grow and compete in our increasingly services driven economy Chesbrough shows how companies in any industry can make the critical shift from product to service centric thinking from closed to open innovation where co creating with customers enables sustainable business models that drive continuous value creation for customers He maps out a strategic approach and proven framework that any individual business unit company or industry can put to work for renewed growth and profits The book includes guidance and compelling examples for small and large companies services businesses and emerging economies as well as a path forward for the innovation industry Whether you are managing a product or a service your business needs to become more open and more inclusive in order to be more innovative Open Services Innovation will be an invaluable guide to intrepid managers who commit to making that journey GARY HAMEL

visiting professor London Business School director Management Lab and author *The Future of Management* I tore out page after page to share with my leaders Chesbrough has pioneered an entire rethink of business innovation that is rich in concept deeply explained with tools ready to use in every industry SCOTT COOK founder and chairman of the executive committee Intuit Focusing on core competence often tempts managers to keep continuing what succeeded in the past A far more important question is what capabilities are critical in the future and Chesbrough shows how to ask and answer these issues CLAYTON CHRISTENSEN Robert Jane Cizik Professor of Business Administration Harvard Business School and author *The Innovator's Dilemma* To thrive businesses will need to master the lessons of open service innovation Here is their one stop guidebook with important lessons clearly and compellingly presented JAMES C SPOHRER director IBM University Programs World Wide Open Innovation pioneer Henry Chesbrough breaks new ground with *Open Services Innovation* a persuasive argument for the power of co creation in the world of services TOM KELLEY general manager IDEO and author *The Ten Faces of Innovation* The Art of Innovation With his trademark style of beautifully explained examples Henry Chesbrough shows how open service innovation and new business models can help you escape this product commodity trap and bring you to the next level of competition ALEX OSTERWALDER author *Business Model Generation* Open Services Innovation shows how a business can redefine itself as a service organisation and tap into faster growth through shared innovation SIR TERRY LEAHY chief executive Tesco Chesbrough shows how innovating openly with a services mindset can make you a market leader CHARLENE LI author *Open Leadership* and founder Altimeter Group

Services Science Bernd Stauss, Kai Engelmann, Anja Kremer, Achim Luhn, 2007-10-15 The service sector has dominated advanced economies for years In many countries it accounts for more than 70% of gross domestic product and approximately the same percentage of all employees work in this sector To reflect the economic relevance of the service sector services science must be established as an academic discipline But the path in pursuit of this goal is riddled with challenges especially in the fields of services research service oriented education and service related collaborations This book includes detailed articles and short statements on each field written by academics and experts They explain which challenges need to be met by research and academic training in the services community of the 21st century The contributions contained in this book reflect the content of presentations and statements given at the first German Services Science Conference

Basic Research And Industrial Innovation In China Xielin Liu, Yubing He, Peng Cheng, 2018-10-31 Chinese enterprises have relied on importing technology and imitation as their main technology strategies in the past Based on analysis of cross countries case studies and the history of industrial innovation the authors proposed the concept of industry driven basic research and expounds the important role of scientific discovery in industrial technological innovation They are convinced that both the government and enterprises should focus on industry driven basic research in order to bridge the gap between the government's target and what enterprises actually do in China The challenge remains to be seen if China can transform Science and technology investment

into real industrial innovation capability *Technology Transfer Systems in the United States and Germany* National Academy of Engineering, Fraunhofer Institute for Systems and Innovation Research, 1997-09-26 This book explores major similarities and differences in the structure conduct and performance of the national technology transfer systems of Germany and the United States It maps the technology transfer landscape in each country in detail uses case studies to examine the dynamics of technology transfer in four major technology areas and identifies areas and opportunities for further mutual learning between the two national systems **The Business of Higher Education** John C. Knapp Ph.D., David J. Siegel, 2009-10-22 At a time of great economic uncertainty The Business of Higher Education looks at the pros and cons of colleges and universities taking a more business like approach to fulfilling their missions How can colleges and universities navigate their way between shrinking commitments and the increasing expectations of their students Does the answer lie in taking a more business like approach This extraordinary resource considers the costs and benefits to both public and private institutions and to society when academe embraces business models for improving cost efficiency marketing hiring practices and customer service Bringing together a diverse team of contributors from the academic and business worlds The Business of Higher Education offers 35 essays in three volumes The first volume explores issues of leadership and culture the second focuses on management and fiscal strategies and the third volume takes up issues of marketing and consumer interests Throughout the work balances the contrasting perspectives of those within the academy and those outside of it as it considers whether higher education and the public interest are ultimately helped or harmed by the application of business methods to essential academic functions Safe Medical Devices for Children Institute of Medicine, Board on Health Sciences Policy, Committee on Postmarket Surveillance of Pediatric Medical Devices, 2006-01-20 Innovative medical devices have helped reduce the burden of illness and injury and improve the quality of life for countless children Mechanical ventilators and other respiratory support devices rescue thousands of fragile newborns every year Children who once would have died of congenital heart conditions survive with the aid of implanted pacemakers mechanical heart valves and devices that close holes in the heart Responding to a Congressional request the Institute of Medicine assesses the system for postmarket surveillance of medical devices used with children The book specifically examines The Food and Drug Administration's monitoring and use of adverse event reports The agency's monitoring of manufacturers fulfillment of commitments for postmarket studies ordered at the time of a device's approval for marketing The adequacy of postmarket studies of implanted devices to evaluate the effects of children's active lifestyles and their growth and development on device performance Postmarket surveillance of medical devices used with children is a little investigated topic in part because the market for most medical products is concentrated among older adults Yet children differ from adults and their special characteristics have implications for evaluation and monitoring of the short and long term safety and effectiveness of medical devices used with young patients Handbook of Research on Driving Competitive Advantage through Sustainable, Lean,

and Disruptive Innovation Al-Hakim, Latif, 2016-04-22 The global market is constantly evolving and it has become essential for organizations to employ new methods of appealing to customers in order to stay abreast on current trends within the world economy The Handbook of Research on Driving Competitive Advantage through Sustainable Lean and Disruptive Innovation features theoretical development and empirical research in social media platforms internet usage big data analytics and smart computing as well as other areas of organizational innovation Highlighting implementation challenges facing innovative processes this publication is a critical reference source for researchers students professionals managers and decision makers interested in novel strategies being employed by organizations in an effort to improve their standings on the global market Building a Better Delivery System Institute of Medicine, National Academy of Engineering, 2005-10-20 In a joint effort between the National Academy of Engineering and the Institute of Medicine this book attempts to bridge the knowledge awareness divide separating health care professionals from their potential partners in systems engineering and related disciplines The goal of this partnership is to transform the U S health care sector from an underperforming conglomerate of independent entities individual practitioners small group practices clinics hospitals pharmacies community health centers et al into a high performance system in which every participating unit recognizes its dependence and influence on every other unit By providing both a framework and action plan for a systems approach to health care delivery based on a partnership between engineers and health care professionals Building a Better Delivery System describes opportunities and challenges to harness the power of systems engineering tools information technologies and complementary knowledge in social sciences cognitive sciences and business management to advance the U S health care system

Handbook of Service Science Paul P. Maglio, Cheryl A. Kieliszewski, James C. Spohrer, 2010-06-14 As the service sector expands into the global economy a new science of service is emerging one that is dedicated to encouraging service innovation by applying scientific understanding engineering discipline and management practice to designing improving and scaling service systems Handbook of Service Science takes the first major steps to clarifying the definition role and future of this nascent field Incorporating work by scholars from across the spectrum of service research the volume presents multidisciplinary perspectives on the nature and theory of service on current research and practice in design operations delivery and innovation of service and on future opportunities and potential of service research Handbook of Service Science provides a comprehensive reference suitable for a wide reaching audience including researchers practitioners managers and students who aspire to learn about or to create a deeper scientific foundation for service design and engineering service experience and marketing and service management and innovation *Technology, Innovation and Entrepreneurship Part II: My Firm* Patri K. Venuvinod, 2011-11-06 In recent times Technology T Innovation I and Entrepreneurship E have become matters of critical importance to the economic and competitive success of nations firms and startups Yet a depressingly large number of people politicians bureaucrats businessmen engineers academics are still locked up in the isms and managerial

mindsets of the last century One reason is the paucity of academic books addressing TIE issues in a manner empathetic to the concerns of developed as well as developing societies This book is the second part of a new textbook trilogy that seeks to fill this gap A special feature is the inclusion of comparative insights derived by the author during his academic pursuits in India the UK Hong Kong China and the USA Part I had examined TIE interactions from the perspectives of the world and nation building Part II this book focuses on issues of importance to individual firms Part III will adopt the perspective of a startup

Managing Services Kathryn Haynes,Irena Grugulis,2014 The book is a collection of perspectives on service and service management written by leading researchers in the field It considers the range and importance of services the challenges of managing services and recent contemporary innovations in services and service management

The Strength in Numbers Barry Bozeman,Jan Youtie,2017-11-07 Once upon a time it was the lone scientist who achieved brilliant breakthroughs No longer Today science is done in teams of as many as hundreds of researchers who may be scattered across continents and represent a range of hierarchies These collaborations can be powerful but they demand new ways of thinking about scientific research When three hundred people make a discovery who gets credit How can all collaborators concerns be adequately addressed Why do certain STEM collaborations succeed while others fail Focusing on the nascent science of team science *The Strength in Numbers* synthesizes the results of the most far reaching study to date on collaboration among university scientists to provide answers to such questions Drawing on a national survey with responses from researchers at more than one hundred universities anonymous web posts archival data and extensive interviews with active scientists and engineers in over a dozen STEM disciplines Barry Bozeman and Jan Youtie set out a framework to characterize different types of collaboration and their likely outcomes They also develop a model to define research effectiveness which assesses factors internal and external to collaborations They advance what they have found to be the gold standard of science collaborations consultative collaboration management This strategy which codifies methods of consulting all team members on a study s key points and incorporates their preferences and values empowers managers of STEM collaborations to optimize the likelihood of their effectiveness *The Strength in Numbers* is a milestone in the science of team science and an indispensable guide for scientists interested in maximizing collaborative success

Ontology-Based Applications for Enterprise Systems and Knowledge Management Nazir Ahmad, Mohammad,Colomb, Robert M.,Abdullah, Mohd Syazwan,2012-08-31 This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas Knowledge Management Systems and Enterprise Systems

The Impact of the 4th Industrial Revolution on Engineering Education Michael E. Auer,Hanno Hortsch,Panarit Sethakul,2020-03-17 This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning ICL2019 which was held in Bangkok Thailand from 25 to 27 September 2019 Covering various fields of e learning and distance learning course and curriculum development knowledge management and learning

real world learning experiences evaluation and outcomes assessment computer aided language learning vocational education development and technical teacher training the contributions focus on innovative ways in which higher education can respond to the real world challenges related to the current transformation in the development of education Since it was established in 1998 the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning Today it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy The book appeals to policymakers academics educators researchers in pedagogy and learning theory school teachers and other professionals in the learning industry and further and continuing education *Organizing for Social Partnership* David J. Siegel, 2010-05-25 The most complex social challenges such as post secondary access and success for under represented students diversification of the workforce poverty environmental degradation and global health exceed the problem solving capacity of single organizations or societal sectors *Organizing for Social Partnership* provides colleges and universities corporations government agencies nonprofits and other organizations with a model for how to effectively address these and other pressing social issues through strong effective collaboration This valuable book is relevant for graduate students enrolled in courses on postsecondary organization and governance equity and diversity access administration and contemporary issues *Organizing for Social Partnership* will also spark dialogue among higher education leaders and their counterparts in business government and the social sector

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web keep calm and carry on was one of three key messages created by britain s wartime propaganda department the ministry of information made famous as the ministry of truth in george orwell s novel 1984

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