

Military and
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Technologies
in a
Changing World

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Beyond Spinoff Military And Commercial Technologies In A Changing World

Birgitte Andersen



Beyond Spinoff Military And Commercial Technologies In A Changing World:

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Beyond Spinoff , 1992 **New Technology Policy and Social Innovations in the Firm** Jorge Niosi, 2014-02-04 In the light of increased discussion of technology policy by all major industrial countries this volume presents the state of the debates and institutional change in the United States the United Kingdom the European Union and Canada It goes on to present studies of the major changes taking place in these countries with regards to the adoption of new technology and the reorganization of institutions to suit these changes Department of Energy National Competitiveness Technology Partnership Act of 1993 United States. Congress. Senate. Committee on Energy and Natural Resources, 1993 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 *Innovation, Dual Use, and Security* Jonathan B. Tucker, 2012 Recent advances in disciplines such as biotechnology nanotechnology and neuropharmacology entail a dual use dilemma because they promise benefits for human health and welfare yet pose the risk of misuse for hostile purposes The emerging field of synthetic genomics for example can produce custom DNA molecules for life saving drugs but also makes possible the creation of deadly viral agents for biological warfare or terrorism The challenge for policymakers is to prevent the misuse of these new technologies without forgoing their benefits *Innovation Dual Use and Security* offers a systematic approach for managing the dual use dilemma The book presents a decision framework for assessing the security risks of emerging technologies and fashioning governance strategies to manage those risks This framework is applied to fourteen contemporary case studies including synthetic genomics DNA shuffling and directed evolution combinatorial chemistry protein engineering immunological modulation and aerosol vaccines The book also draws useful lessons from two historical cases the development of the V series nerve agents in Britain and the use and misuse of LSD by the U S Army and the CIA *Innovation Dual Use and Security* offers a comprehensive multifaceted introduction to the challenges of governing dual use technologies in an era of rapid innovation The book will be of interest to government officials and other practitioners as well as to students and scholars in security studies science and technology studies biology and chemistry Knowledge, Technology Transfer and Foresight A. Inzelt, R. Coenen, 2012-12-06 A comparative perspective on the problems and issues of the transfer of knowledge and technology in and between western and former socialist countries focusing on three key technologies laser technology biotechnology and information technology The book highlights the specific challenges facing economies in transition in technology policy and commercialisation Furthermore it gives an excellent insight into current technology forecasting practice and methodology and the use of forecasting results in framing science and technology policy Audience Those involved in science and technology policy and forecasting such as industrial and governmental policy makers and researchers **Innovation Systems in a Global Context** Robert Anderson, Theodore Cohn, Chad Day, 1998-10-23 Focusing on North America *Innovation Systems in a Global Context* examines the nature of existing systems of innovation in the United States Canada and Mexico the conceptual questions surrounding the analysis of

such systems trends towards the creation of supranational systems in East Asia Europe and North America and some of the ecological cultural economic and social problems confronting these large scale systems *From Defense to Development?* Sean M. DiGiovanna, Ann Markusen, 2003-09-11 This book tracks the progress of 12 countries on five continents in moving resources from defense to civilian activity in the 1990s Based on intensive research it addresses each country with an impressive standard of scholarship *Atomic Assistance* Matthew Fuhrmann, 2012-07-05 Nuclear technology is dual use in nature meaning that it can be used to produce nuclear energy or to build nuclear weapons Despite security concerns about proliferation the United States and other nuclear nations have regularly shared with other countries nuclear technology materials and knowledge for peaceful purposes In *Atomic Assistance* Matthew Fuhrmann argues that governments use peaceful nuclear assistance as a tool of economic statecraft Nuclear suppliers hope that they can reap the benefits of foreign aid improving relationships with their allies limiting the influence of their adversaries enhancing their energy security by gaining favorable access to oil supplies without undermining their security By providing peaceful nuclear assistance however countries inadvertently help spread nuclear weapons Fuhrmann draws on several cases of Atoms for Peace including U S civilian nuclear assistance to Iran from 1957 to 1979 Soviet aid to Libya from 1975 to 1986 French Italian and Brazilian nuclear exports to Iraq from 1975 to 1981 and U S nuclear cooperation with India from 2001 to 2008 He also explores decision making in countries such as Japan North Korea Pakistan South Africa and Syria to determine why states began or did not begin nuclear weapons programs and why some programs succeeded while others failed Fuhrmann concludes that on average countries receiving higher levels of peaceful nuclear assistance are more likely to pursue and acquire the bomb especially if they experience an international crisis after receiving aid *European Defence Technology in Transition* Philip Gummert, Josephine Ann Stein, 2014-01-02 This book draws on the ten nation CREDIT Capacity for Research on European Defence and Industrial Technology network which was set up to tackle issue concerning defence science technology and industrial policy including the implications of the Cold War and a growing pan European emphasis By providing a comparative study of policy and practice in the countries of western Europe the book provides vital insights into how governments and firms can begin to search for European wide solutions to the dilemmas that face them H.R. 5521--National Aeronautical Research and Competitiveness Act of 1992 United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Technology and Competitiveness, 1992 **Towards New Global Strategies** Erik André Andersen, Birgit Lindsnaes, 2007 Preface Introduction Erik Andr Andersen and Birgit Lindsn s 1 Global public goods concepts and definitions The state and the citizen Natural law as a public good Peter Wivel Public goods Concept definition and method Erik Andr Andersen and Birgit Lindsn s On human rights Lone Lindholt and Birgit Lindsn s The global and the regional outlook How can global public goods be advanced from a human rights perspective Birgit Lindsn s 2 Peace and security Peace as a global public good Bj rn M ller International institutions for preserving peace and security

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The Competitive Strength of U.S. Industrial Science and Technology National Science Board (U.S.). Committee on Industrial Support for R&D., National Science Foundation (U.S.), 1992 *Governing Differences* Paul D. Aligica, Jennifer Brick Murtazashvili, 2025-05-14 This is an open access title available under the terms of a CC BY NC ND 4 0 License It is free to read download and share on Elgaronline This book discusses the crisis in modern governance rooted in the social fragmentation of modern society the expanding diversity of values beliefs and lifestyles generated by globalization and the technological revolution Chapters advocate for a convergence of the institutional theory of polycentricity and the political philosophy of modus vivendi live and let live as a basic conceptual framework to uphold a peaceful and tolerant society while presenting detailed analysis of a wide range of case studies

The Myth of the Global Corporation Paul Doremus, William W. Keller, Louis W. Pauly, 1999 A common perception of multinational corporations is that they are creating an overwhelmingly powerful market and are rendering national borders obsolete Using data from the US Japan and Europe this book argues that such a view is incorrect

Empowering Technology Lewis M. Branscomb, 1993 experts from Harvard s Center for Science and International Affairs here examine a set of key issues and problems that taken together define the scope and limits of a technology policy

Intellectual Property Rights Birgitte Andersen, 2006-01-01 The book presents an impressive line up of experts in the increasingly relevant field of law and economics an area that has particular relevance to the issue of IP rights an excellent collection of cutting edge research an essential read for those interested in the economic impact of IPRs a highly recommended collection Andr s Guadamuz *Journal of Intellectual Property Law and Practice* Intellectual property policy has been framed too commonly in terms of refining and strengthening legal rights As intellectual property grows in scope and importance the limitations of this narrow approach have become all too apparent This important collection puts the policy problems in proper perspective by assembling the work of leading scholars and

researchers who examine intellectual property rights in terms of how they actually work in legal economic and institutional contexts Brian Kahin University of Michigan and formerly White House Office of Science and Technology Policy US For a long time we have thought about IPRs as a policy instrument to avoid a tragedy of commons The essays collected by Birgitte Andersen show that in the XXI century economy there is another and so far underestimated danger a sort of tragedy of markets where every knowledge or cultural expression becomes privatised This will generate a greater knowledge and culture divide with an increased corporate dominance Those who are afraid of the dangers of exclusion and believe that open access to science technology and culture will lead us in a more intriguing world will find convincing arguments and explanations in this volume Daniele Archibugi Italian National Research Council Italy There is a growing need to understand the role of the regulation of intellectual property rights IPRs in order not only to achieve economic performance growth and sustainable development at corporate sectoral and global levels but also to provide a higher quality of life for communities worldwide Intellectual Property Rights is cutting edge in addressing current debates affecting businesses industry sectors and society today and in focusing not only on the enabling welfare effects of IPR systems but also on some of the possible adverse effects of IPR systems The main areas covered in the book are the global commons in an era of corporate dominance and privatisation of the public domain including science culture and healthcare under TRIPS the rationales for IPRs and the importance of an appropriate design of an IPR regime in achieving its objectives opening the black box of IPR offices and critically reviewing how they affect economic performance in both theory and practice coordinating the institutions state versus sector institutions knowledge networks innovation systems creating and extracting financial and non financial value from patents and copyrights This book challenges the existing mainstream thinking and analytical frameworks dominating the theoretical literature on IPRs within economics management politics law and regulation theory It is relevant for policymakers business analysts industrial and business economists researchers and students

The Foundations of Management Knowledge Paul Jeffcutt, 2008-01-28 This volume brings together a group of leading academics from Europe North America and Australasia to address the nature and management knowledge in relation to rapidly changing arenas of theory and practice

Reviewing **Beyond Spinoff Military And Commercial Technologies In A Changing World**: Unlocking the Spellbinding Force of Linguistics

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