

# Strategic Foresight Springer

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*Foresight for Science, Technology and Innovation* - Ian Miles 2016-08-29  
Decision-makers at all levels are being confronted with novel complexities and uncertainties and face long-term challenges which require foresight about long-term future prospects, assumptions, and strategies. This book explores how foresight studies can be systematically undertaken and used in this context. It explicates why and how methods like horizon scanning, scenario planning, and roadmapping should be applied when dealing with high levels of uncertainty. The scope of the book moves beyond "narrow" technology foresight, towards addressing systemic interrelations between social, technological, economic, environmental, and political systems. Applications of foresight tools to such fields as energy, cities, health, transportation, education, and sustainability are considered as well as enabling technologies including nano-, bio-, and information technologies and cognitive sciences. The approaches will be illustrated with specific actual cases.

**Threatcasting** - Brian David Johnson 2021-10-04

Impending technological advances will widen an adversary's attack plane over the next decade. Visualizing what the future will hold, and what new threat vectors could emerge, is a task that traditional planning mechanisms struggle to accomplish given the wide range of potential issues. Understanding and preparing for the future operating environment is the basis of an analytical method known as Threatcasting. It is a method that gives researchers a structured way to envision and plan for risks ten years in the future. Threatcasting uses input from social science, technical research, cultural history, economics, trends, expert interviews, and even a little science fiction to recognize future threats and design potential futures. During this human-centric process, participants brainstorm what actions can be taken to identify, track, disrupt, mitigate, and recover from the possible threats. Specifically, groups explore how to transform the future they desire into reality while avoiding an undesired future. The Threatcasting method also exposes what events could happen that indicate the progression toward an increasingly possible threat landscape. This book begins with an overview of the Threatcasting method with examples and case studies to enhance the academic foundation. Along with end-of-chapter exercises to enhance the reader's understanding of the concepts, there is also a full project where the reader can conduct a mock Threatcasting on the topic of "the next biological public health crisis." The second half of the book is designed as a practitioner's handbook. It has three separate chapters (based on the general size of the Threatcasting group) that walk the reader through how to apply the knowledge from Part I to conduct an actual Threatcasting activity. This book will be useful for a wide audience (from student to practitioner) and will hopefully promote new dialogues across communities and novel developments in the area.

*Private Banking and Wealth Management Futures 2030* - Jörn H Bühring 2021-06-18

This book engages the reader around different perspectives between forecasting and foresight in strategic design, drawing insights derived from a futures study that can be applied in form of a design-inspired foresight approach for designers and interdisciplinary innovation teams increasingly called upon to help envisage preferable futures. Demonstrating this process in applied research, the book describes a 2016 Financial Services industry futures study to the year 2030. An industry increasingly at risk in dealing with uncertainty, the Financial Services sector, is a core pillar of economic activity in most markets, such as greater China, and inherent within are major drivers of change linked to consumer behaviors, new technology and disruptive business models. While the financial services industry exemplifies an ideal case for design-inspired foresight, the aims of this book are primarily to establish the peculiarities between traditional forecasting applications and a design-inspired foresight visioning approach as strategic design activities for selecting preferable futures. Underlining the contribution of this book is the value of design futures thinking as a creative and

divergent thought process, which has the potential to respond to the much broader organizational reforms needed to sustain in today's rapidly evolving business environment.

**Rethinking Strategic Management** - Thomas Wunder 2019-09-06

This book offers innovative ideas and frameworks for sustainable strategizing to advance business by scaling-up its positive impact, which is so urgently needed at this time in the 21st century. It shows practitioners how to effectively deal with socio-ecological systems' disruptions to their operating environments and play an active role in transforming markets toward a sustainable future. In short, the book demonstrates how to make business sense of sustainability, highlighting new approaches and examples that translate sustainability into strategy and action. The ultimate goal is to provide a path toward a thriving future for both business and society. This book was written for strategy practitioners and decision makers who want to understand why sustainable strategizing is important in today's business world and are seeking actionable business knowledge they can apply in their companies. It was also written for students of management and can be used as a supplemental text to support traditional graduate and undergraduate management courses.

**Strategic Planning Decisions in the High Tech Industry** - Dilek Cetindamar 2013-02-05

The scale and complexity of research and practices of open innovation mandate a correspondingly sophisticated form of decision making. Strategic Planning Decisions brings together a number of tools that ease the decision process in technology companies, providing both conceptual frameworks and practical applications. Innovative approaches are presented such as an ontology-based model where all the relevant aspects of a potential technology are interrelated to provide a comprehensive and logically connected data pool for decision makers. Divided into two sections, Strategic Planning Decisions describe both strategic approaches using the decision tools, and tactical approaches. Some of these tools are expanded while some others are embedded in a model that will lay the ground for practical application. These include: bibliometric analysis, ontology, roadmapping, lead user, six sigma, and multi-actor & multi-objective decision making methods Recent research and relevant theory are balanced with up-to-date practical applications and hands-on techniques making Strategic Planning Decisions ideal for engineers who wish to keep up-to-date with current ideas in the field of TM. It also provides workable methods for practising managers from all levels who wish to apply a more rigorous approach in their work and consultants concerned with technology assessment and its management.

*We Tried to Warn You* - Peter H. Jones 2008-08

This book was written as a response to the positive and heartening reception to a series of articles published (online and print) on innovative interventions in organizations. The core message of We Tried to Warn You is that every day, micro-failures of communication and their cover-ups can accumulate, and enable a network of decisions that lead to systemic-level failures of organizations. I report on first hand experiences as an organizational participant, and more recently as a design/management consultant, informed by the substantive research published over the years by key authors I have learned from, and cite in the book. We Tried to Warn You presents a case study in compact form, with identifying details obscured to protect the great and the guilty alike. I focus emphasis on the knowledge-based practices that enable organizations to sense and make decisions from critical feedback from customers in the field, especially the multidisciplinary field now known as "user experience" (or UX). UX has become a primary conduit for understanding "real users" and their needs in current organizations worldwide. UX is often involved throughout all phases of a project, from user research, to product concept design, to final design and user testing. As a still-emerging knowledge discipline, UX practices were developed in the case organization as a response to a systemic failure,

with outstanding positive results. The book also shares lessons learned from a process called socialization, which distributes leadership and skill development among organizational players in the formation of key strategic practices such as UX.

**Corporate Foresight** - René Rohrbeck 2010-11-04

Have you ever wondered why even large companies fail when faced with changes in their environment? Would you be surprised to learn that the average life expectancy of a Fortune 500 company is below 50 years? This book presents findings from 19 case studies in multinational companies such as Siemens, Volkswagen, General Electric, Philips and Deutsche Telekom. René Rohrbeck proposes a Maturity Model to assess how prepared a company is to respond to external (disruptive) change. He uses data from 107 interviews with board members, corporate strategists, innovation managers, and corporate foresight professionals to present and discuss best practices. Using illustrations to show the complex interaction of corporate foresight with other units such as innovation and strategic management, René Rohrbeck provides the reader with rich insights on how to make an organization agile and reactive towards change. For scholars this book proposes multiple hypotheses and frameworks for future research.

**Multinational Strategic Foresight of Environmental Trends in the Automobile Industry Using Internal Resources** - Natalie Wippel 2014-10-25

This book provides an overview of the basics of strategic foresight, the differences multinational enterprises (MNEs) have to deal with while working in an international context and an understanding of the interrelation of strategic foresight and environmental trends. The results of the study indicate that it is advantageous for MNEs to use their internal resources worldwide for strategic foresight during the first three phases of the strategic foresight process (SFP); but they have to be aware of possible barriers.

**A Bias Radar for Responsible Policy-Making** - Lieve Van Woensel 2019-12-26

Policymakers prepare society for the future and this book provides a practical toolkit for preparing pro-active, future-proof scientific policy advice for them. It explains how to make scientific advisory strategies holistic. It also explains how and where biases, which interfere with the proper functioning of the entire science-policy ecosystem, arise and investigates how emotions and other biases affect the understanding and assessment of scientific evidence. The book advocates explorative foresight, systems thinking, interdisciplinarity, bias awareness and the anticipation of undesirable impacts in policy advising, and it offers practical guidance for them. Written in an accessible style, the book offers provocative reflections on how scientific policy advice should be sensitive to more than scientific evidence. It is both an appealing introductory text for everyone interested in science-based policy and a valuable guide for the experienced scientific adviser and policy scholar. "This book is a valuable read for all stakeholders in the scientific advisory ecosystem. Lieve Van Woensel offers concrete methods to bridge the gap between scientific advice and policy making, to assess the possible societal impacts of complex scientific and technological developments, and to support decision-makers' more strategic understanding of the issues they have to make decisions about. I was privileged to see them prove their value as I worked with Lieve on the pilot project of the Scientific Foresight unit for The European Parliament's STOA panel." - Kristel Van der Elst, CEO, The Global Foresight Group; Executive Head, Policy Horizons Canada "A must-read for not only scientific policy advisers, but also those interested in the ethics of scientific advisory processes. Lieve Van Woensel walks readers through a well-structured practical toolkit that bases policy advice on more than scientific evidence by taking into account policies' potential effects on society and the environment." - Dr Paul Rübig, Former Member of the European Parliament and former Chair of the Panel for the Future of Science and Technology

**Science, Technology and Innovation Policy for the Future** - Dirk Meissner 2013-05-24

The book gives practical guidance for policy makers, analysts and researchers on how to make the most of the potential of Foresight studies. Based on the concept of evidence-based policy-making, Foresight studies are common practice in many countries and are commonly understood as a supportive tool in designing future-oriented strategies. The book outlines approaches and experiences of integrating such Foresight studies in the making and implementation of science, technology and innovation (STI) policies at different national levels. It delivers insights into practical approaches of developing STI policy

measures oriented towards future societal and technological challenges based on evidence drawn from comparable policy measures worldwide. Authors from leading academic institutions, international organizations and national governments provide a sound theoretical foundation and framework as well as checklists and guidelines for leveraging the potential impact of STI policies.

**Architects of Change** - Jeremy Ghez 2019-09-09

What is the difference between a fire fighter and an architect? One deals with crises as they arise while the other is capable of building something that can withstand all weathers. Using this analogy, *Architects of Change* provides you with the tools to grasp, leverage and harness the dynamics that shape tomorrow's markets. It encourages you to nurture an entrepreneurial mind-set to transform the way a business - or even an entire industry - operates. Tackling crucial topics related to geopolitics, creative destruction, fake news, resilience and creativity, this book gives you the tools to analyse your environment and future trends in order to reinvent the way you do business. It teaches you how to: · Identify actors of change · Conduct simulations about the future · Assess threats of political instability · Build a strategy for a profitable and sustainable firm amid ongoing uncertainty · Become an architect of change yourself. Containing original interviews with industry insiders, including a world-famous expert on brands and luxury, the former CEO of a major think tank, a thought leader from CISCO, the former chairman of the US National Intelligence Council, and a former chief political scientist of a large Asian bank, this book helps you to understand the type of imagination and creativity this business environment requires not only to survive, but thrive.

**Technology Roadmapping for Strategy and Innovation** - Martin Moehrle 2013-01-17

Technology roadmapping is a significant method to help companies gain orientation concerning future challenges. This work contains a description of technology roadmapping in four major parts, providing expert knowledge on framing/embedding of technology roadmapping, processes of technology roadmapping, implementing technology roadmapping and linking technology roadmapping to other instruments of strategic planning. The book provides a comprehensive survey of technology roadmapping since it contains papers by leading European, American and Asian experts, provides orientation regarding different methods of technology roadmapping and their interconnections, supplies readers with a compilation of the most important submethods, and embeds and links technology roadmapping in the framework of management research. This book aims at becoming the leading compendium on technology roadmapping.

**The Evolution of Strategic Foresight** - Tuomo Kuosa 2016-03-16

Embracing the theory and practice of strategic foresight and illuminating how different schools of thought regard its role in policy making, Tuomo Kuosa describes how something not traditionally considered an independent discipline, is steadily becoming one. In *The Evolution of Strategic Foresight* he explains how the practice of strategic foresight has long been closely associated with the military and politics. Linking strategic thinking more broadly to futurology, however, it is quite new. Since strategic foresight refers to the practice of generating analyses of alternative futures and strategies, based on available intelligence and foreknowledge, the practice can and should be applied to companies, business sectors, national and trans-national agencies of all descriptions, and to all aspects of public policy making. The author explains its practice in terms of structure, process, and knowledge domains, and examines its methodologies and systems, along with how strategic foresight can be used to produce better knowledge and be more effectively linked to policy making. Using examples from 30 different countries and with access to interviews and workshops involving key experts, *The Evolution of Strategic Foresight* will be valuable to scholars, educators, students engaged in strategy and future studies, long-range, public policy and urban planners, analysts; risk assessment experts, and consultants, managers and decision makers in many organisations, public and private.

**Springer Handbook of Automation** - Shimon Y. Nof 2009-07-16

This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

**Corporate Foresight** - Alberto F. De Toni 2020-10-29

The world changes like the patterns in a kaleidoscope: trends expand, contract, break up, melt, disintegrate and disappear, while others are formed. Change – as opposed to stasis – is our normal condition, the only certainty in our lives, hence the need to create tools that provide organizations with the means to tackle change and navigate complexity. We must accept the reality of constant change and be prepared for a heavy shift in perspective: interconnection versus separation, acceleration versus linearity and discontinuity versus continuity. Anticipating the future requires more than the traditional predictive models (forecasting) based on the forward projection of past experiences. Advanced methods use anticipation logic (foresight) and build probable scenarios taking into account weak signals, emerging trends, coexisting presents and potential paths of evolution. Corporate foresight is fundamental to interpret and lead change. The two cornerstones of foresight are organization and management. As concerns organization, the authors advocate the separation of research (oriented to the market of tomorrow) from development (oriented to the market of today), the establishment of a foresight unit and the concentration of research activities mainly on the acquisition and recombination of external know-how. As regards management, after an overview of state-of-the-art literature on forecasting methods, the authors propose the implementation of a "future coverage" methodology, which enables companies to measure and verify the consistency between trends, strategic vision and offered products. These organizational and managing tools are then tested in a case study: the Italian company Eurotech SpA, a leader in the ICT sector.

**Foresight & Strategy in the Asia Pacific Region** - Luke van der Laan 2015-10-08

This book explores the importance of strategy and how to make it work in an environment characterised by constant change. With a specific focus on the Asia Pacific region, anticipated to become the epicentre of global economic activity, it offers insights into the optimisation of economic potential and social cohesion enabled by leaders, which is crucial to the global economy and living standards. It highlights sound foresight, strategic thinking and innovation as the critical underpinnings of successful business and provides a comprehensive guide to combining practice and theory to ensure successful strategies, from formulation to execution. The book also builds on the concepts of change, the purpose of business, foresight, strategic thinking, strategic planning and innovation to present a holistic view of how these essential elements can be integrated in practice. Combined with a special contribution by Chaly Mah, the CEO of Deloitte Asia Pacific, the book carefully balances professional and academic insights to optimally benefit its readers and will be of interest to industry practitioners, researchers and students alike.

**Proceedings of International Conference on Smart Computing and Cyber Security** - Prasant Kumar Pattnaik 2020-11-27

This book presents high-quality research papers presented at the International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2020) held during July 7–8, 2020, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content addresses challenges of cyber security.

*Forward-looking External Search as a Driver for Innovation* - Sara Polier 2019-04-25

In this empirical analysis Sara Polier investigates forward-looking external search strategies and their impact on the value contribution of corporate foresight. Based on a mixed method approach combining a quantitative and qualitative analysis of large, R&D-intensive firms, the findings reveal a general positive influence of different search strategies with respect to the scope (i.e. breadth, depth, and distance) and direction of search (i.e. market, science, and intermediary-driven) on the role of foresight as a driver for innovation. This relationship is found to be mediated by a firm's exploratory learning capability, which appears to facilitate the effective transfer of external future-related knowledge into valuable outputs.

**Foresight and Innovation** - E. Hiltunen 2013-11-29

Foresight and Innovation is a guide for readers that are interested about the future. The book introduces a concept of futurist thinking, which includes anticipating, innovating and communicating about the futures. These concepts show how various organizations, all over the world are thinking, communicating and creating a better future.

**Bio#Futures** - Emmanuel Koukios 2022-05-07

This volume presents a timely recognition, warning and mapping of the fast approaching wave, or "bio-tsunami", of global socio-technical transformation, built by a much wider spectrum of converging powers, including biotechnology, new agriculture, novel foods, health, quality of life, environment, energy, sustainability, education, knowledge management, and design of smart applications. The book contains eight sections corresponding to different clusters of bioeconomic and socio-technical change, as identified by the editors' "Scanning the Horizon" foresight research; it also offers an integrated view of the future bioeconomy landscape though the convergence of several technologies that affect everyday life. The clusters offer methodologies for forecasting the future bioeconomy, and how these predictions can affect target-setting and the orientation of policies and actions to manage cultural and societal change, and achieve sustainable development in less developed areas. The book will be of interest to researchers, producers, logistics experts, policy makers, regulators, business and financial institutions, and biotechnologists (e.g. geneticists, food experts, etc.).

**Scenario-based Strategic Planning** - Burkhard Schwenker 2013-12-05

In a world characterized by increasing complexity and volatility, managers must be able to flexibly adapt their strategies to changing environmental conditions. Traditional strategic management frameworks often fail in this context. Therefore, we present "scenario-based strategic planning" as a framework for strategic management in an uncertain world. Previous approaches to scenario planning were complex and focused on the long term, but the approach developed by Roland Berger and the Center for Strategy and Scenario Planning at HHL Leipzig Graduate School of Management is different. By designing appropriate tools and integrating scenario planning into strategic planning, we have made our approach less complex and easier for firms to apply. We illustrate the approach with examples from different industries.

**Strategic Foresight** - Sarah Lai-Yin Cheah 2020-03-09

Strategic foresight is discipline that organizations adopt to gather, interpret, manage information about the future environment they plan to operate in. This book introduces the concept of strategic foresight and advocates a holistic and systemic foresight approach comprising five phases that are suitable for organizations in the public and private sectors. Using real-life cases as practical examples, the book demonstrates how organizations can apply a range of foresight methods and resources across the phases from intelligence to implementation. The book offers an opportunity to learn by all key stakeholders. It enhances the understanding of the National Research Organization's Foresight exercise (as the complex social phenomenon) in its context. The case study of the National Research Organisation provides lessons and insights that can improve both the theoretical and practical implementation of the Foresight Exercise. Dr Mlungisi Cele Acting Head: National Advisory Council on Innovation Department of Science and Technology, Republic of South Africa Foresight methodologies have been widely spreading among business and research organizations worldwide during the last decades. The weakest point of many forward-looking activities so far was the lack of their practical use. The books shows, on a number of cases, how a Foresight study, being wisely designed and implemented, can become a useful navigation tool for increasing competitiveness in the fast changing environment. Dr Alexander Sokolov Professor, HSE National Research University, Russia Director, Institute for Statistical Studies and Economics of Knowledge / International Research and Educational Foresight Centre Very useful tool to describe how organizations assess the future and formulate strategic plans using a systemic foresight methodology Ibon Zugasti Managing Director in PROSPEKTIKER and Chair of the Millennium Project Node in Spain A comprehensive source of knowledge on complex issues of technology foresight process, from conception to commercialization of key technologies, made easy to understand and useful for aspiring futurists seeking to learn more about the matters at hand. Dr Surachai Sathitkunararat Executive Director, APEC Center for Technology Foresight (APEC CTF) Assistant to the President Office of National Higher Education, Science, Research and Innovation Policy Council (NXPO) Thailand This book provides a very good coverage of the end-to-end methodology for technology-based innovation through the use of diverse and relevant business use cases. Very often, books on this theme only expound the approaches. Sarah goes beyond in sharing the pitfalls and challenges during the different stages of the systemic foresight methodology so that readers can learn and avoid the mistakes that other companies made. The emphasis on open innovation and intellectual property management is valuable as many organizations fail to deliver

the vision due to insufficient attention on these two aspects. A must read if you wish to master strategic foresight. Dr Terence Hung Chief, Future Intelligence Technologies Rolls-Royce Singapore Pte Ltd Why do people want to know the future? People want to use budget efficiently or don't want to waste time? Aside from those who see the future, like fortune tellers, how do we make the future? Foresight is known as a method of creating the future in a way that many people has been using. So how is it different between Forecast and Foresight? This book will help answer that. Dr Kuniko Urashima Deputy Director of Foresight Center National Institute of Science and Technology Policy (NISTEP), Japan .

**Future-Oriented Technology Analysis** - Cristiano Cagnin 2008-07-29  
The application of foresight to address the challenges of uncertainty and rapid change has grown dramatically in the past decade. In that period, the techniques have been greatly refined and the scope has been broadened to encompass future-oriented technology analysis (FTA) and more recently, the concept and practice of strategic intelligence. FTA addresses directly the longer-term future through the active and continuous development of visions, and pathways to realise these visions. It is increasingly seen as a valuable management and policy tool complementing, and extending further into the future, classical strategy, planning, and decision-making approaches. This book charts the development of FTA and provides the first coherent description and analysis of its practical application and impact in the worlds of business, government, education and research in both advanced and developing countries. It draws on papers addressing the application of FTA around the globe which were presented at the Second International Seville Seminar in September 2006. The insights and practical experience will be invaluable for company managers, government ministers and officials, researchers and academics with responsibilities for effective planning and decision-making in an increasingly turbulent and unpredictable world.

**2050 China** - Angang Hu 2020-12-17

This book is open access under a CC BY-NC-ND 4.0 license. This book is arranged and developed around the theme of "2050 China," it analyzes the factors and advantages of the Chinese road to socialist modernization, explores and summarizes the development goal and the basic logic of the socialist modernization of China, and further shows the general basis of the primary stage of socialism. According to the report delivered at the 19th Party Congress, and according to the "two-stage" strategic plan, this book looks ahead in detail to the overarching objective and sub-objectives of essentially achieving socialist modernization by 2035, discusses the building of a great modern socialist country in all respects from the perspective of the Party's six-sphere integrated plan of economic, political, cultural, social, ecological civilization, and national defense construction, and provides policy proposals. This book also analyzes the influence and the effect of the socialist modernization with Chinese characteristics on the world and it further presents the third centenary goal. In conclusion, this book is an elaboration of the work of the Institute for Contemporary China Studies, Tsinghua University. It reflects the intellectual innovation in the authors' research on contemporary China, as well as the authors' foresight and predictions about China's future development.

**Strategic Thinking and the New Science** - T. Irene Sanders 1998-05-05

Describes how business managers can use scientific concepts to anticipate industrial trends and stay a step ahead of their competitors

**Deploying Foresight for Policy and Strategy Makers** - Leonid Gokhberg 2018-05-26

This book develops foresight techniques to turn future societal challenges into opportunities. The authors present foresight approaches for innovation policy and management. Future developments in fields such as education, energy, new materials, nanotechnologies are highlighted for different countries. Readers will discover tools and instruments to capture the potentials of the grand societal challenges as defined by the United Nations. This book is a valuable resource for researchers and scholars with an interest in foresight methods and gives practical hints for policy makers and managers to take account of the grand opportunities in their business and policy strategies.

**Creating Innovation Leaders** - Banny Banerjee 2015-12-01

This book focuses on the process of creating and educating innovation leaders through specialized programs, which are offered by leading academic schools. Accordingly, the book is divided into two parts. While the first part provides the theoretical foundations of why and how innovation leaders should be created, the second part presents evidence that these foundations can already be found in the programs of ten top-

level universities. Part one consists of six chapters following a rigorous plan of content development, addressing topics ranging from (1) innovation, to (2) the settings where innovation occurs, (3) innovation leadership, (4) the need to change education, (5) a taxonomy of advanced educational experiences, and (6) cases of positive vs negative innovation leadership in the context of complex problems. Here the authors show that a new kind of innovation leadership is urgently needed, how it can be created, and how it is put into action. The second part is a collection of invited chapters that describe in detail ten leading academic programs: their objectives, curricular organization, enrollment procedures, and impact on students. Selected programs include four North American institutions (Stanford's d.school, Harvard's Multidisciplinary Engineering Faculty, Philadelphia University, OCAD's Master of Design on Strategic Foresight & Innovation), five European institutions (Alta Scuola Politecnica of Milano and Torino, the EIT Master Program, Paris' d.school, Brighton's Interdisciplinary Design Program, Aalto University) and the Mission D program at Tongji University in China. The book is dedicated to all those who recognize the need to provide stimuli regarding innovation and innovation leadership, primarily but not exclusively in academia. These include, but are not limited to, professors, deans and provosts of academic institutions, managers at private organizations and government policy-makers - in short, anyone who is engaged in promoting innovation within their own organization, and who feels the need to expand the intellectual and practical toolbox they use in this demanding and exciting endeavor.

**Recent Developments in Foresight Methodologies** - Maria Giaoutzi 2012-11-28

Foresight is an area within Futures Studies that focuses on critical thinking concerning long term developments, whether within the public sector or in industry and management, and is something of a sub-section of complexity and network science. This book examines developments in foresight methodologies and relates in its greater part to the work done in the context of the COSTA22 network of the EU on Foresight Methodologies. Foresight is a professional practice that supports significant decisions, and as such it needs to be more assured of its claims to knowledge (methodology). Foresight is practiced across many domains and is not the preserve of specialized 'futurists', or indeed of foresight specialists. However, the disciplines of foresight are not well articulated or disseminated across domains, leading to re-inventions and practice that does not make best use of experience in other domains. The methodological development of foresight is an important task that aims at strengthening the pool of the tools available for application, thereby empowering the actors involved in foresight practice. Elaborating further on methodological issues, such as those presented in the present book, enables the actors involved in foresight to begin to critique current practice from this perspective and, thirdly, to begin to design foresight practice. The present trends towards methodological concerns indicates a move from 'given' expert-predicted futures to one in which futures are nurtured through a dialogue among "stakeholders." The book has four parts, each elaborating on a set of aspects of foresight methodologies. After an introductory section, Part II considers theorizing about foresight methodologies. Part III covers system content issues, and Part IV presents foresight tools and approaches.

**Futures Thinking and Organizational Policy** - Deborah A. Schreiber 2018-12-19

This book proposes that organizational policies are what ensure the institutionalization and sustainability of futures thinking in organizations. It presents several case studies from corporations and other institutions that describe effective use of foresight methods and internal policies to respond to rapid change. The case studies address changing trends in technology, globalization and/or workforce diversity, and the impact on the economic and political well-being of the organization. The editors also develop an organizational capability maturity model for futures thinking as well as providing questions for discussion that promote critical review of each case chapter. This book will inform scholars and organizational leaders how best to utilize foresight methodologies and organizational policies to sustain successful management strategies within futures thinking organizations. Chapter 9 is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

**New Perspectives in Technology Transfer** - Dana Mietzner 2021-02-06

This edited book presents research results that are relevant for scientists, practitioners and policymakers who engage in knowledge and technology transfer from different perspectives. Empirical and

conceptual chapters present original approaches regarding the current practice and policies behind technology transfer. By providing analyses at the macro, meso and micro-level, the respective chapters demonstrate how technology is moving from various organizational contexts into new institutions and becoming a critical aspect for competitiveness.

**Applied Technology and Innovation Management** - Heinrich Arnold 2009-12-10

Rapid application of new technologies and highly leveraged innovation processes are key for the success of companies and organizations in dynamic markets. Based on the experiences of one of the industry's most modern innovation centers this book provides an insight into the tools and methods used to align customer requirements, competitive challenges and technological development. Both, scientists and practitioners, will benefit from the lessons learned and presented in this volume.

**Proceedings of 2nd International Conference on Smart Computing and Cyber Security** - Prasant Kumar Pattnaik

This book presents high-quality research papers presented at the Second International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2021) held during June 16-17, 2021, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content addresses challenges of cyber security.

**Scenario Thinking** - George Cairns 2017-10-13

Develops scenario planning methods in ways that link scenario analysis to improved decision making, engage time-poor senior decision makers, attenuate decision makers' tendency to deflect responsibility for bleak, negative scenario outcomes, and enhance causal analysis within scenario-storyline development. What if? Two of the most powerful - and frightening - words in business. Almost as bad as "I didn't see that coming." Some things that transform the marketplace overnight come from nowhere. Some things that create potentially critical under-performance are genuinely unforeseeable. Sometimes it is impossible to predict how a change in an organizational strategy will play out. Some things and sometimes - but not many and not often. Decision makers in organizations face more-and-more complex and ambiguous problems that need to be addressed under time pressure - and the need for practical decision support has become essential. The range of methods in this book will enable you to be prepared, proactive and resilient no matter what the future brings. Based on up-to-date academic research and years of application and iteration in the real world, this book, illustrated with examples of the value delivered in Europe, Australia and the Middle East, will transfer practical skills in scenario thinking using step-by-step instructions. This thoroughly revised and expanded second edition introduces these new approaches in detail, with clear guidelines and examples to enable the reader to select and implement the most appropriate scenario method to suit the issue at hand - considering the timeframe for its investigation, the resources available and the outcomes expected.

**Strategic Foresight** - A. Marcus 2016-04-30

This book provides students and line managers in organizations with the means to create better scenarios and to use them to create winning business strategies. The book covers scenarios such as: economic outlooks; political environments; acquisitions; downsizing, and more.

**Leadership and Strategic Foresight in Smart Cities** - José A. LugoSantiago 2020-07-28

This book examines the leadership practices and foresight needed for smart cities. The book begins by exploring the evolving definition of a smart city. Then, it considers the problems with smart cities and the need for foresight in the management of these cities. The last part of the book offers a model of strategic foresight based on understanding, anticipating, and shaping the future, with applicability to organizations. This book offers a new conception of smart cities that will appeal to researchers and policymakers interested in futures thinking and strategy.

**Handbook of Cyber-Development, Cyber-Democracy, and Cyber-Defense** - Elias G. Carayannis 2016-05-10

This volume covers a wide spectrum of issues relating to economic and political development enabled by information and communication technology (ICT). Showcasing contributions from researchers, industry leaders and policymakers, this Handbook provides a comprehensive overview of the challenges and opportunities created by technological

innovations that are profoundly affecting the dynamics of economic growth, promotion of democratic principles, and the protection of individual, national, and regional rights. Of particular interest is the influence of ICT on the generation and dissemination of knowledge, which, in turn, empowers citizens and accelerates change across all strata of society. Each essay features literature reviews and key references; definition of critical terms and concepts, case examples; implications for practice, policy and theory; and discussion of future directions. Representing such fields as management, political science, economics, law, psychology and education, the authors cover such timely topics as health care, energy and environmental policy, banking and finance, disaster recovery, investment in research and development, homeland security and diplomacy in the context of ICT and its economic, political and social impact.

**Proceedings of International Conference on Smart Computing and Cyber Security** - Prasant Kumar Pattnaik 2021

This book presents high-quality research papers presented at the International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2020) held during July 7-8, 2020, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content addresses challenges of cyber security.

**Product Innovation Management** - Stefano Biazzo 2021-07-02

This book offers new insights into the complex set of activities and decisions of product innovation management. It provides concepts, methods, and tools that can help accelerate the introduction of successful products to the market in an increasingly competitive and changing business landscape. It also offers examples and case studies, and it is the result of more than 20 years of study, research, and consulting carried out by the two authors in the field of innovation management. The book discusses the demanding challenges of product innovation and offers practitioners guidance on how to respond to these challenges. It presents a three-level framework (the "innovation pyramid"), which reflects the core components of a firm's innovation capability: first, intelligence - absorbing information and knowledge from the outside world by looking beyond the familiar territories of the current market, technology, and customers; second, discovery - exploring opportunities for innovation through creative ideation and technology experimentation; and third, development - transforming opportunities into profitable new products and services.

**The SAGE Handbook of Learning and Work** - Margaret Malloch 2021-10-13

The first two decades of the 21st century have contributed a growing body of research, theorisation and empirical studies on learning and work. This Handbook takes the consideration of this topic into a new realm, moving beyond the singular linking of identity, learning and work to embrace a more holistic appreciation of learners and their life-long learning. Across 40 chapters, learners, learning and work are situated within educational, organisational, social, economic and political contexts. Taken together, these contributions paint a picture of evolving perspectives of how scholars from around the world view developments in both theory and practice, and map the shifts in learning and work over the past two decades. Part 1: Theoretical perspectives of learning and work Part 2: Intersections of learning and work in organisations and beyond Part 3: Learning throughout working lives and beyond Part 4: Issues and challenges to learning and work

**Territorial Impact Assessment** - Eduardo Medeiros 2020-11-19

This book presents a comprehensive debate and analysis of existing Territorial Impact Assessment (TIA) methodologies, designed under the auspices of the ESPON programme since the mid-2000s. This is intended to serve as a TIA handbook for the reader, to better understand the main differences, advantages and shortcomings of each presented TIA methodology. It also serves as a manual for professors and students in the field of policy evaluation, and territorial analysis, as it presents concrete examples of the implementation of each TIA methodology, their formulas and intrinsic evaluation elements. The purpose of policy evaluation methodologies is to check the main effects of private and public investments, in order to report back to policymakers and citizens on their efficiency and effectiveness. Over the past decades, both in Europe and worldwide, there has been an increasingly awareness of the need to implement/reinforce policy evaluation practices, at all territorial levels. At the same time, it has become widely accepted that many policy interventions produce impacts in more than one dimensions of territorial

development. In this context, the use of a holistic and territorial approach for policy impact assessment evaluation has rapidly been

adopted by the European Commission as a mainstream policy evaluation procedure.