Innovation And Future Trends In Food Manufacturing And Supply Chain Technologies Woodhead Publishing Series In Food Science Technology And Nutrition

The brewing and winemaking industries need to take action to avoid losing some of their historical domestic markets through product innovation that takes account of the reasons why consumers are starting to turn away from mass market beers and wines. The plastics industry is a major player for consumer items, notably for the automotive, consumer electronics and packaging industries, and is necessarily very active in innovation. As a result, moulded thermoplastics are achieving new heights in decorative appearance and quality. Many striking aesthetic effects are possible by employing new polymer blends coupled with a diverse range of decoration and surface treatment technologies. These can produce three-dimensional and tactile finishes, high definition images, flawless high gloss and metallic surfaces, as well as effects ranging from imitation materials, interferential colours, colour gradients, colour change and travel, gloss and matte combinations, and even acoustic or olfactory effects. Manufacturing processes to achieve these include several types of in-mould film, coating or decorating technique, relatively recent technologies to improve surface quality, as well as traditional separate decorating or coating processes such as dry offset; flexographic; inkjet; pad and screen printing; foil transfer; labelling; laser marking; plating; spray coating; and vacuum deposition. This unique book analyses and compares recent trends in each of over 20 types of mainstream manufacturing process and 10 classes of sensory effect they can produce. Supported by over 100 tables, a 3-year sampling of over 1,000 mentioned patent documents and hundreds of commercial developments helps to identify the main trends and their innovators, key innovative clusters and the most sought-after effects, as well as provide indications for the future.

This book will provide the full scope on trend research, from scanning to analysing and applying trends.

Identifying Emerging Trends in Technological Innovation Doctoral programs in science and engineering are important sources of innovative ideas and techniques that might lead to new products and technological innovation. Certainly most PhD students are not experienced researchers and are in the process of learning how to do research. Nevertheless, a number of empiric studies also show that a high number of technological innovation ideas are produced in the early careers of researchers. The combination of the eagerness to try new approaches and directions of young doctoral students with the experience and broad knowledge of their supervisors is likely to result in an important pool of innovation potential. The DoCEIS doctoral conference on Computing, Electrical and Industrial En- neering aims at creating a space for sharing and discussing ideas and results from doctoral research in these inter-related areas of engineering. Innovative ideas and hypotheses can be better enhanced when presented and discussed in an encouraging and open environment. DoCEIS aims to provide such an environment, releasing PhD students from the pressure of presenting their propositions in more formal contexts.

Ever heard of an internal entrepreneur? You might know the type. They're kind of employee who pushes mercilessly towards the trends of the future. Often looked at as a little bit outside the mainstream, more often than not the decisions this internal entrepreneur makes on behalf of an organization pay off in spades. So what makes an internal entrepreneur? How can you, as a nonprofit, create a culture that rewards futuring, internal entrepreneurs and innovation and doesn't shut it down? The book "The Future of Nonprofits: Thrive and Innovate in the Digital Age" helps organizations do those very things. Better predicting future trends helps to reshape culture, creating the kind of environment ripe for positive growth in this fast changing world we work in today. Designed for nonprofit employees on all levels, the book will become a go to handbook for those interested in adapting in the modern world, not looking to be left behind. The Future of Nonprofits helps organizations capitalize on internal innovation. Innovative nonprofits are able to better predict future trends to remake and reshape their culture, structure, and staff to be a more nimble and lean. By applying the strategies laid out in this book, nonprofit professionals of all levels can prepare their organizations to take advantage of future trends and develop innovative "internal entrepreneurs" that will grow revenue and drive their mission. Provides nonprofits with a comprehensive playbook on how to create a new, more flexible, innovative organization Provides nonprofits a look at the future of fundraising and communications trends into 2016 Case studies highlight successes and failures Highlights the power and strength of Social Media Hightlights how to hire, train, manage and inspire "internal entrepreneurial" employees Features actionable advice on creating an organization that is primed to grow and thrive in the immediate and long-term future This game-changing book reveals how every nonprofit can put technology, innovation and future trends to work to reach their mission and grow revenue.

This book aims to identify promising future developmental opportunities and applications for Tech Mining. Specifically, the enclosed contributions will pursue three converging themes: The increasing availability of electronic text data resources relating to Science, Technology and Innovation (ST&I). The multiple methods that are able to treat this data effectively and incorporate means to tap into human expertise and interests. Translating those analyses to provide useful intelligence on likely future developments of particular emerging S&T targets. Tech Mining can be defined as text analyses of ST&I information resources to generate Competitive Technical Intelligence (CTI). It combines bibliometrics and advanced text analytic, drawing on specialized knowledge pertaining to ST&I. Tech Mining may also be viewed as a special form of "Big Data" analytics because it searches on a target emerging technology (or key organization) of interest in global databases. One then downloads, typically, thousands of field-structured text records (usually abstracts), and analyses those for useful CTI. Forecasting Innovation Pathways (FIP) is a methodology drawing on Tech Mining plus additional steps to elicit stakeholder and expert knowledge to link recent ST&I activity to likely future development. A decade ago, we demeaned Management of Technology (MOT) as somewhat self-satisfied and ignorant. Most technology managers relied overwhelmingly on casual human judgment, largely oblivious of the potential of empirical analyses to inform R&D management and science policy. CTI, Tech Mining, and FIP are changing that. The accumulation of Tech Mining research over the past decade offers a rich resource of means to get at emerging technology developments and organizational networks to date. Efforts to bridge from those recent histories of development to project likely FIP, however, prove considerably harder. One focus of this volume is to extend the repertoire of information resources; that will enrich FIP. Featuring cases of novel approaches and applications of Tech Mining and FIP, this volume will present frontier advances in ST&I text analytics that will be of interest to students, researchers, practitioners, scholars and policy makers in the fields of R&D planning, technology management, science policy and innovation strategy.

Smart Cities for Technological and Social Innovation establishes a key theoretical framework to understand the implementation and development of smart cities as innovation drivers, in terms of lasting impacts on productivity, livability and sustainability of specific initiatives. This framework is based on empirical analysis of 12 case studies, including pioneer projects from Europe, Asia, the Middle East, and more. It explores how successful smart cities initiatives nurture both technological and social innovation using a combination of regulatory governance and private agency. Typologies of smart city-making approaches are explored in depth. Integrative analysis identifies key success factors in establishing innovation relating to the effectiveness of social systems, institutional thickness, governance, the role of human capital, and streamlining funding of urban development projects. Cases from a range of geographies, scales, social and economic contexts Explores how smart cities can promote technological and social innovation in terms of direct impacts on livability, productivity and sustainability Establishes an integrative framework based on empirical evidence to develop more innovative smart city initiatives Investigates the role of governments in coordinating, fostering and guiding innovations resulting from smart city developments Interrogates the policies and governance structures which have been effective in supporting the development and deployment of smart cities

Learn to Innovate and Make Real Change In our era of disruption and possibility, there are so many great opportunities within your grasp; however, most smart and successful people miss out. Unfortunately, your capabilities are limited by the seven traps of path dependency, which cause you to repeat past decisions. These traps can limit you from seeing the potential of what could be. If you could overcome these traps, what could you accomplish? How much more successful could you be? Create the Future teaches you how to think disruptively, providing specific steps to create real innovation and change. This book combines Jeremy's high energy, provocative thinking with tactics that have been battle-tested through thousands of his team's projects advising leading innovators like Disney, Starbucks, Amex, IBM, Adidas, Google, and NASA. On top of all that, this is a double-sided book, paired with The Innovation Handbook, a revised edition of Jeremy's award-winning book, Exploiting Chaos.

This report assesses the changing consumer payments landscape, analyzes the development of payment cards and provides data on card penetration and usage for the US and 16 European markets. It also examines card fraud and initiatives to combat it.

Ubertrends examines eight driving forces behind the vast majority of trends and innovations taking place in society today. Ubertrends are massive waves cascading through society, leaving many subtrends in their wake. The Digital Lifestyle Ubertrend, today's biggest wave, propels a host of subtrends. Unlike typical trends, Ubertrends are changing America's values, which explains why the Digital Lifestyle is contributing to permanent behavioral changes. Ubertrends helps readers connect the dots, by providing more context for how the future is developing. Other Ubertrends described include Time Compression -- The Acceleration of Life; Unwired -- Control Enthusiast Generation, Generation X-tasy -- Been There, Done That, Voyeurgasm -- I Like to Watch; Fountain of Youth -- Rejuvenating Body, Spirit and Environment; and WAF -- The Ascent of Woman.

Innovation and Future Trends in Food Manufacturing and Supply Chain Technologies focuses on emerging and future trends in food manufacturing and supply chain technologies, examining the drivers of change and innovation in the food industry and the current and future ways of addressing issues such as energy reduction and rising costs in food manufacture. Part One looks at innovation in the food supply chain, while Part Two covers emerging technologies in food processing and packaging. Subsequent sections explore innovative food preservation technologies in themed chapters and sustainability and future research needs in food manufacturing. Addresses issues such as energy reduction and rising costs in food manufacture Assesses current supply chain technologies and the emerging advancements in the field, including key chapters on food processing technologies Covers the complete food manufacturing scale, compiling significant research from academics and important industrial figures

Hard Science Fiction Films that Predict the Future "As the breakneck advance of technology takes us into a world that is both exciting and menacing, sci-fi films give us an inkling of what is to come, and what we should avoid." —Seth Shostak, senior astronomer at the SETI Institute, and host of Big Picture Science #1 Best Seller in Nanotechnology and Computers & Technology Dr. Andrew Maynard, physicist and leading expert on socially responsible development of emerging and converging technologies, examines science fiction movies and brings them to life. Advances in science and technology are radically changing our world.Films from the Future is an essential guide to navigating a future dominated by complex and powerful new technologies. The jump from room-filling processors to pocket-size super computers is just the beginning. Artificial intelligence, gene manipulation, cloning, and inter-planet travel are all ideas that seemed like fairy tales but a few years ago. And now their possibility is very much here. But are we ready to handle these advances? As Maynard explains, "Viewed in the right way?and with a good dose of critical thinking?science fiction movies can help us think about and prepare for the social consequences of technologies we don't yet have, but that are coming faster than we imagine." Films from the Future looks at twelve movies that take readers on a journey through the worlds of biological and genetic manipulation, human enhancement, cyber technologies, and nanotechnology. Gain a broader understanding of the complex relationship between science and society. The movies include old and new, and the familiar and unfamiliar, to provide a unique, entertaining, and ultimately transformative take on the power and responsibilities of emerging technologies. If you have read books such as The Book of Why, The Science of Interstellar, or The Future of Humanity, you will love Films from the Future.

Tourism can take many different forms and types but increasingly it is viewed as one of the most innovative industries. This book showcases the innovations in tourism through a creativity, sustainability and technology perspective. Tourism Innovation: Technology, Sustainability and Creativity addresses the growing use and importance of tourism innovation in society. Readers of this book will gain a global perspective on how the tourism industry is changing and taking advantage of emerging technologies, which will help them to foresee potential changes in the industry and plan for the future. Tourism innovation is defi ned as innovating in a cost-effi cient manner by taking into account the available resources.

Most of the focus on tourism innovation has been on developing countries but it is also used by companies in other locations. This book explores the way in which tourism innovation differs from other types of innovation and offers a creative solution to issues about sustainability and the circular economy. In this vein, it includes chapters addressing issues related to the following but not limited subjects: co-creation in innovation, social issues in innovation, leadership and innovation, forms of innovation, government innovation and innovation research. This book is suitable for tourism industry professionals, researchers and policy experts who are interested in how innovation is embedded in the tourism industry.

Ultimately, the authors make a compelling case not only for this turn to learning but for creating new pathways for nonfaculty learning careers, understanding the limits of professional organizations and social media, and the need to establish this new interdisciplinary field of learning innovation.

?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.?

Three unassailable facts will strike you as soon as you start to read The Future of Innovation: • One: innovation is the new mantra; whether you're involved in teaching art and design, new product development for a blue chip consumer brand or responsible for providing public services to citizens; • Two: understanding innovation requires multiple perspectives; from culture and mindset, social and commercial context, new ways of working as much as new products or services; • Three: innovation is a journey; drawing on insights from around the globe is essential to accelerate our progress. Bettina von Stamm and Anna Trifilova have gathered together the thoughts and ideas of over 200 of the most creative innovators from business, professional practice and academia from nearly 60 countries. The contributors look at innovation from almost every angle. Their statements offer an unparalleled view of innovation and provide a depth of insight that is extraordinary. The editors' reflection on each statement and on the sections within the book, provide useful links between themes and reinforce the relationships between many of the ideas. Anyone interested in innovation (student, researcher or practitioner) will benefit from this global thought collection. The contributors' multiple perspectives, models, practical examples and stories provide a sense of innovation that no single writer could ever capture. The Future of Innovation is supported by the website www.thefutureofinnovation.org, where you can find even more contributions and tools that enable you to exchange, expand, elaborate and develop your perspectives on the future of innovation.

This volume presents the revised and peer reviewed contributions of the "ERP Future 2012" conference held in Salzburg/Austria on November 11th - 12th, 2012?. The conference is a platform for research in ERP systems and closely related topics like business processes, business intelligence, and enterprise information systems in general. To master the challenges of ERP comprehensively, the ERP Future 2012 Research conference accepted contributions both with a business focus as well as with an IT focus to consider enterprise resource planning from various viewpoints. This combination of business and IT aspects is a unique characteristic of the conference and of this volume that resulted in valuable contributions with high practical impact.

This book identifies and discusses the main challenges facing digital business innovation and the emerging trends and practices that will define its future. The book is divided into three sections covering trends in digital systems, digital management, and digital innovation. The opening chapters consider the issues associated with machine intelligence, wearable technology, digital currencies, and distributed ledgers as their relevance for business grows. Furthermore, the strategic role of data visualization and trends in digital security are extensively discussed. The subsequent section on digital management focuses on the impact of neuroscience on the management of information systems, the role of IT ambidexterity in managing digital transformation, and the way in which IT alignment is being reconfigured by digital business. Finally, examples of digital innovation in practice at the global level are presented and reviewed. The book will appeal to both practitioners and academics. The text is supported by informative illustrations and case studies, so that practitioners can use the book as a toolbox that enables easy understanding and assists in exploiting business opportunities involving digital business innovation.

Flavor is an integral part of food and what it offers consumers, and therefore the optimization of flavor in food is important for manufacturers to add value to their products.

Food and drinks manufacturers have an opportunity to learn from trends found in the personal care sector. Sensory stimulation and product multi-functionality represent two important innovations for the future.

The Global Innovation Index 2019 provides detailed metrics about the innovation performance of 129 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The GII 2019 analyzes the medical innovation landscape of the next decade, looking at how technological and non-technological medical innovation will transform the delivery of healthcare worldwide. It also explores the role and dynamics of medical innovation as it shapes the future of healthcare, and the potential influence this may have on economic growth. Chapters of the report provide more details on this year's theme from academic, business, and particular country perspectives from leading experts and decision makers.

Innovation, the process by which fundamental research becomes a commercial product, is increasingly important in the chemical sciences and is changing the nature of research and development efforts in the United States. The workshop was held in response to requests to speed the R&D process and to rapidly evolve the patterns of interaction among industry, academe, and national laboratories. The report contains the authors' written version of the workshop presentations along with audience reaction.

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Trend-Driven Innovation Beat accelerating customer expectations. Every business leader, entrepreneur, innovator, and marketer wants to know where customers are headed. The problem? The received wisdom on how to find out is wrong. In this startling new book, the team at TrendWatching share a powerful, counter-intuitive truth: to discover what people want next, stop looking at customers and start looking at businesses. That means learning how to draw powerful insights from the way leading brands and disruptive startups—from Apple to Uber, Chipotle to Patagonia—redefine customer expectations. Sharing the secrets that have led thousands of the world's most successful brands and agencies to rely on TrendWatching for over a decade, Trend-Driven Innovation is the book that will reconfigure your view of the business world forever. You'll learn: How to spot emerging trends using three crucial building blocks, and how to recognize the expectation gaps that herald opportunity. Why most professionals focus on precisely the wrong trends and innovations, and how to avoid this. How to turn trends and insights into innovations that customers

will love. Amid the endless change that defines today's business environment, opportunity is everywhere. Highly practical, and featuring real-world examples from around the world, Trend-Driven Innovation is the actionable, battle-tested manual that will enable you harness those opportunities time after time. Setting you up to build an organization that matters, products customers love, and campaigns people can't stop talking about.

The world is undergoing a profound transformation, driven by radical technological changes and an accelerated globalisation process. A new culture of greater resource efficiency and disruptive innovation will require new technologies, processes and materials, fostering new knowledge, innovation, education and a digital society, bringing forward new business opportunities and novel solutions to major societal challenges. Challenges for Technology Innovation: an Agenda for the Future is the result of the 1st International Conference on Sustainable Smart Manufacturing – S2M, held at the Faculty of Architecture in Lisbon, Portugal, on October 20-22, 2016. It contains innovative contributions in the field of Sustainable Smart Manufacturing and related topics, making a significant contribution to further development of these fields. This volume covers a wide range of topics including Design and Digital Manufacturing, Design Education, Eco Design and Innovation, Future Cities, Medicine 4.0, Smart Manufacturing, Sustainable Business Models, Sustainable Construction, Sustainable Design and Technology and Sustainable Recycling.

Discover how 25 powerful technology trends are transforming 21st century businesses How will the latest technologies transform your business? Future Tech Trends in Practice will give you the knowledge of today's most important technology trends, and how to take full advantage of them to grow your business. The book presents 25 real-world technology trends along with their potential contributions to organisational success. You'll learn how to integrate existing advancements and plan for those that are on the way. In this book, best-selling author, strategic business advisor, and respected futurist Bernard Marr explains the role of technology in providing innovative businesses solutions for companies of varying sizes and across different industries. He covers wide-ranging trends and provides an overview of how companies are using these new and emerging technologies in practice. You, too, can prepare your company for the potential and power of trending technology by examining these and other areas of innovation described in Future Tech Trends in Practice: Artificial intelligence, including machine and deep learning The Internet of Things and the rise of smart devices Self-driving cars and autonomous drones 3D printing and additive manufacturing Blockchain technology Genomics and gene editing Augmented, virtual and mixed reality When you understand the technology trends that are driving success, now and into the future, you'll be better positioned to address and solve problems within your organisation.

Being able to make and receive payments is an essential facet of modern life. It is integral to the banking and finance systems, and it touches all global citizens. In some areas, payment systems are rapidly evolving – moving swiftly from paper payment instruments, to electronic, to real-time – but in others, underdeveloped payment systems hold back economic and social development. This book is intended to assist the reader in navigating the payments landscape. The author explores highly topical areas, such as the role of payment systems in enabling commerce to contribute to the development of emerging economies, the evolution of payment systems from paper instruments to computerization, the role of cryptocurrencies, and the slow decline of plastic credit and debit cards owing to alternative forms of payment being introduced. Altogether, this book provides a comprehensive overview of the evolution of payment and offers projections for the future, encouraging readers to explore their own predictions, using the framework that the book has provided. It is vital reading for technologists, marketers, executives and investors in the FinTech sector, as well as academics teaching business and technology courses.

Written by experts on innovation and growth, this book provides the necessary tools to systematically develop and sustain profitable innovation pipelines. In a hypercompetitive global market, businesses must innovate to survive; yet the failure rate for innovation is extremely high. Strategists and thought leaders, Cheryl Perkins and Dr. Sanjay Mazumdar, offer a sophisticated yet practical approach for implementing successful innovation. Leveraging thought-provoking questions and powerful templates, the book outlines how companies can leverage core strengths, build internal innovation capabilities, partner effectively, and identify the promising areas to pursue. In addition, the book highlights emerging innovations in several major industries, providing fodder to fuel creative thinking and exploration of possible applications across a variety of different industries. Managers and leaders will welcome the innovation insights and examples, as well as the templates to build an organization's plan to diagnose patterns of innovation, identify opportunities, and apply emerging innovations in their own industries and businesses.

What drives innovation and entrepreneurship in India, China, and the United States? Our data-rich and evidence-based exploration of relationships among innovation, entrepreneurship, and economic growth yields theoretical models of economic growth in the context of macroeconomic factors. Because we know far too little about the key characteristics of Chinese and Indian entrepreneurs and the ways they innovate, our balanced, systematic comparison of entrepreneurship and innovation results in a new approach to looking at economic growth that can be used to model empirical data from other countries. The importance of innovation and entrepreneurship to any economy has been recognized since the pioneering work of Joseph Schumpeter. Our analysis of the major factors that affect innovation and entrepreneurship in these three parts of the world – US, China and India –provides a comprehensive view of their effects and their likely futures. Looks at elements important for innovation and entrepreneurship and compares them against each other within the three countries Places theoretical modeling of economic growth in the context of the overall macroeconomic factors Explores questions about the relationships among innovation, entrepreneurship and economic growth in China, India and the US

Big data and artificial intelligence (AI) are at the forefront of technological advances that represent a potential transformational mega-trend—a new multipolar and innovative disruption. These technologies, and their associated management paradigm, are already rapidly impacting many industries and occupations, but in some sectors, the change is just beginning. Innovating ahead of emerging technologies is the new imperative for any organization that aspires to succeed in the next decade. Faced with the power of this AI movement, it is imperative to understand the dynamics and new codes required by the disruption and to adapt accordingly. AI and Big Data's Potential for Disruptive Innovation provides emerging research exploring the theoretical and practical aspects of successfully implementing new and innovative technologies in a variety of sectors including business, transportation, and healthcare. Featuring coverage on a broad range of topics such as semantic mapping, ethics in AI, and big data governance, this book is ideally designed for IT specialists, industry professionals, managers, executives, researchers, scientists, and engineers seeking current research on the production of new and innovative mechanization and its disruptions.

Innovation has been a major engine of American economic and societal progress. It has increased per capita income more than sevenfold since the 19th century, has added three decades to the average lifespan, has revolutionized the way we communicate and share information, and has made the United States the strongest military power in the world. Without its historical leadership in innovation, the United States would be a very different country than it is today. Trends in the Innovation Ecosystem is the summary of two workshops hosted by the Committee on Science, Engineering, and Public Policy (COSEPUP) of the National Academy of Sciences, National Academy of Engineering, and Institute of Medicine in February and May, 2013. Experts from industry, academia, and finance met to discuss the challenges involved in

innovation pathways. Both workshops focused on the interactions between research universities and industry and the concept of innovation as a "culture" as opposed to an operational method. The goal was to gain a better understanding of what key factors contributed to successful innovations in the past, how today's environment might necessitate changes in strategy, and what changes are likely to occur in the future in the context of a global innovation ecosystem. This report discusses the state of innovation in America, obstacles to both innovation and to reaping the benefits of innovation, and ways of overcoming those obstacles.

Understanding the latest trends and technologies and their impact on enterprises, organizations or state administrations is essential to successfully develop a business in the age of Industry 4.0. This book presents a unique selection of topics and offers the reader an understanding of the implications of the newest technologies such as Artificial Intelligence (AI), Internet of Things (IoT), Augmented Reality (AR) and new trends like social media and sustainable competitiveness in business. It presents the impact of the newest trends on businesses, consumers, and the result on the economy. Contributions showcase the technical perspective of new technologies and provides an innovative and enriching perspective on the implementation of AI in e-commerce and the developmental barriers it can create, modern social media usage in enterprises, the newest trends in innovation management, sustainable competitiveness in the business context, the influence and effect of augmented reality, and the privacy problem of Internet of Things to consumers. This book illustrates how to develop innovation cooperation between business, academia and public institutions through the example of biopharmaceutical industry. It will be of value to researchers, academics, professionals, and students in the fields of economics, management, international business.

Game-changing trends are coming in business, technology, workforce, economy, security, and environment. Climate change, energy demand, and population growth will redefine global risk and power. Exponential new technologies will emerge in digital money, mobile commerce, and big data. An explosive new middle class of over one billion consumers will enter the marketplace. Every nation, job, business, and person will be transformed. To thrive in this future you have to become predictive, adaptive, and agile—to become Future Smart. Dr. James Canton, a renowned global futurist and visionary business advisor, illuminates the pivotal forces and global power shifts that everyone must understand today to thrive in a rapidly changing landscape: Regenerative medicine will extend our lifetimes and rebuild our bodies Robots and drones will drive our cars, teach our kids, and fight our wars Smart machines will design, manage, and service 40% of all global businesses—energy, commerce, finance, and manufacturing—without humans Digital consumers who live always connected will challenge every business to change its strategy Climate change wars will redefine security and resources Most of us are not prepared to meet the challenges the future will bring, but these changes are coming fast. Armed with knowledge, those who are Future Smart can take action to reinvent themselves, their businesses, and their world.

From the man the Wall Street Journal describes as a 'global change guru', more than one hundred of the trends that touch every aspect of our lives. This new and updated edition looks even farther into the future, predicting trends past the first decades of the 22nd century. Patrick Dixon looks at how the future will be Fast, Urban, Tribal, Universal, Radical and Ethical - a future of boom and bust and great economic change as the emerging markets grow up; a future of great advances in medicine and also greater threats from viral epidemics; a future of political shocks and greater conflicts; a future in which people will strive for more privacy and businesses will change the way they relate to their staff and their customers; a future in which there will be driverless cars and solar power generated in the desert will power cities thousands of miles away. In this updated edition, Dixon shows how recent developments confirm his predictive scheme: Artificial intelligence and robotics - profound power and influence over our future world Beyond Brexit - the longer term future of the EU and UK The long-term impact of the MeToo movement The future of Truth - Fake News, propaganda and impact on democracy Presidential leadership - rise of powerful figureheads across the world, and potential future conflicts And in an entirely new chapter, Dixon extends his predictive horizon to see how the future will look one hundred years from now.

Innovation is an ancient art, may be as old as 500,000 years, but managing innovation is a relatively young management technique, only a few decades old, and has received much less attention than other aspects of innovation such as creativity, entrepreneurship or venturing. This book is not about providing a series of recipes on innovation management or a collection of case stories on how to do innovation or not. The few examples given are well known innovations from (Shell) history and all of them have been described before in the literature. However, this book does not focus on the brilliant result or failure of the innovations, but on the process of innovation in order to understand the features of a well-managed innovation effort. The book has been written around six main themes: 1. Understanding innovation as a business process and how it has developed through history. 2. For a manager it is essential to appreciate the fundamental difference between inside- and outside-the-box innovation; each one needs its own specific management process. 3. The main roles of the innovation manager are managing the innovation funnel, executing the innovation strategy and optimising the value of the innovation portfolio. 4. Entrepreneurship is the key resource in innovation and the right conditions have to be created for it to flourish in large companies. 5. The value of innovation can be assessed as an option value and in creating intellectual capital for the company. 6. Integrating sustainable development in the innovation process requires changes in the management process, in the assessment and valuation of innovation, and in the interaction with the stakeholders. · Extremely practical book, based on hands-on experience and written to a high academic standard. · Provides unique and novel perspectives into the innovation process. · One of only a few titles that discuss how to manage the innovation process.

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