Responsible Innovation 3

#Responsible Innovation #Ethical Technology #Sustainable Innovation #Innovation Governance #Future Tech Responsibility

Responsible Innovation 3 delves into the critical aspects of developing new technologies and solutions with a strong emphasis on ethical considerations, environmental sustainability, and societal impact. This framework guides organizations in fostering innovation that is not only groundbreaking but also accountable, ensuring long-term positive contributions to the global community.

Responsible Innovation 3

This book offers a comprehensive overview of current developments in the field of Responsible Research and Innovation (RRI). Divided into three parts, the book first presents reflections on the concept of RI from various angles: how did it come about, who is involved and how might in be applied in various contexts, such as the academic environment or in developing countries. The second part discusses the actual application of RRI to technology development: for climate engineering, water management and energy technology along with a general discussion on how to integrate RRI in innovation trajectories. The last part offers a closer look at the application of RRI to the business context. This part offers lessons from comparable concepts such as social and sustainability innovation as well as insights from two case-studies, one in the food sector and the other in data management. As a whole, the book contributes to the ongoing development of the framework of RRI by giving an overview of the state-of-the art research, presenting the lessons learned from several case studies, and showing the way for future application of RI in other fields and cultural contexts, such as industry and developing countries.

Responsible Innovation 1

This book addresses the methodological issues involved in responsible innovation and provides an overview of recent applications of multidisciplinary research. Responsible innovation involves research into the ethical and societal aspects of new technologies (e.g. ICT, nanotechnology, biotechnology and brain sciences) and of changes in technological systems (e.g. energy, transport, agriculture and water). This research is highly multidisciplinary. It involves close collaboration between researchers in such diverse fields as ethics, social science, law, economics, applied science, engineering - as well as innovative, design-oriented and policy-relevant. Although there is a trend to engage ethicists and social scientists early in technology development, most literature in the field of Technology Assessment or Ethics of Technology is still aimed at one discipline whereas this book incorporates different approaches and to discuss experiences, lessons and more general theoretical issues.

International Handbook on Responsible Innovation

The Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes. This book brings together well-known authors from the US, Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine, to nanotechnology and robotics. The emphasis is on the socio-economic and normative dimensions of innovation including issues of social risk and sustainability.

Responsible Innovation 2

This book discusses issues regarding conceptualization, governance and implementation of responsible innovation. It treats different approaches to making responsible innovation a reality and it contains new case studies that illustrate challenges and solutions. Research on Responsible Innovation is by its nature highly multidisciplinary, and also pro-active, design-oriented and policy-relevant. Until a few years back, the concept of Responsible Innovation was hardly used - nowadays it is increasingly receiving attention from both researchers and policy makers. This is indispensable reading for anyone interested in or working on innovation.

Responsible Innovation

Science and innovation have the power to transform our lives andthe world we live in - for better or worse – in ways thatoften transcend borders and generations: from the innovation ofcomplex financial products that played such an important role inthe recent financial crisis to current proposals to intentionallyengineer our Earth’s climate. The promise of science andinnovation brings with it ethical dilemmas and impacts which areoften uncertain and unpredictable: it is often only once these haveemerged that we feel able to control them. How do we undertakescience and innovation responsibly under such conditions, towardsnot only socially acceptable, but socially desirable goals and in away that is democratic, equitable and sustainable? Responsibleinnovation challenges us all to think about our responsibilitiesfor the future, as scientists, innovators and citizens, and to actupon these. This book begins with a description of the current landscape ofinnovation and in subsequent chapters offers perspectives on theemerging concept of responsible innovation and its historicalfoundations, including key elements of a responsible innovationapproach and examples of practical implementation. Written in a constructive and accessible way, ResponsibleInnovation includes chapters on: Innovation and its management in the 21st century A vision and framework for responsible innovation Concepts of future-oriented responsibility as an underpinningphilosophy Values – sensitive design Key themes of anticipation, reflection, deliberation andresponsiveness Multi – level governance and regulation Perspectives on responsible innovation in finance, ICT,geoengineering and nanotechnology Essentially multidisciplinary in nature, this landmark textcombines research from the fields of science and technologystudies, philosophy, innovation governance, business studies andbeyond to address the question, “How do we ensure theresponsible emergence of science and innovation insociety?”

Responsible Innovation

This Open Access book, Responsible innovation provides benefits for society, for instance more sustainable products, more engagement with consumers and less anxiety about emerging technologies. As a governance tool it is mostly driven by research funders, including the European Commission,

under the term “responsible research and innovation” (RRI). To achieve uptake in private industry is a challenge. This book provides successful case studies for the implementation of responsible innovation in businesses. The importance of social innovations is emphasized as a link between benefits for society and profits for businesses, especially SMEs. For corporate industry it is shown how responsible innovation can offer a competitive advantage to adopters. The book is based on the latest insights from theory and practice and combines conceptual work with first-hand experience. It is of interest to innovation managers, entrepreneurs and academics. For academics, the book will provide a combination of analysis and discussion, and present recent learnings from first-hand interaction with entrepreneurs. For innovation managers and entrepreneurs, it will provide inspiration and better ideas about what responsible innovation can look like in practice, why others have “done it” and what the potential benefits might be. The book will thus serve the purposes of spreading the word about the responsible innovation concept among different audiences whilst making it more accessible to innovation managers and entrepreneurs.

Assessment of Responsible Innovation

Responsible Innovation encourages innovators to work together with stakeholders during the research and innovation process, to better align the outcomes of innovation with the values, needs and expectations of society. Assessing the benefits and costs of Responsible Innovation is crucial for furthering the responsible conduct of science, technology and innovation. However, there is until now only limited academic work on Responsible Innovation assessment. This book fills this lacuna. Assessment of Responsible Innovation: Methods and Practices presents tools for measuring, monitoring, and reporting upon the Responsible Innovation process and the social, environmental, scientific, and economic impacts of innovations. These tools help innovators to mitigate risk and to strengthen their strategic planning. This book aligns assessment tools and practices with the UN Sustainable Development Goals (SDGs). The prospects as well as the limitations of various Responsible Innovation assessment approaches and tools are discussed, as well as their applicability in various industry contexts. The book brings together leading scholars in the field to present the most comprehensive review of Responsible Innovation tools. It articulates the importance of assessment and value creation, the different metrics and monitoring systems that can be deployed and the reporting mechanisms, including the importance of effective communication. This book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license at https://www.taylorfrancis.com/books/e/9780429298998

Implementing Responsible Research and Innovation

This open access book offers a unique and practically oriented study of organisational and national conditions for implementing Responsible Research Innovation (RRI) policies and practices. It gives the reader a thorough understanding of the different aspects of RRI, and of barriers and drivers of implementation of RRI related policies. It shows how different organisational and national contexts provide unique challenges and opportunities for bringing RRI into practice. The book provides concrete examples and offers the reader both a theory-based understanding of the topic, as well as guidance for action. The target audience encompasses, in addition to RRI students and scholars in particular, all students and scholars in the field of Science and Technology Studies (STS). The book is also of interest to students and scholars in the fields of research ethics, philosophy of science, organisational governance in the research system and organisational theory more generally. Finally, the book is of use to practitioners in research conducting and funding organisations working to implement RRI.

Responsible Innovation

Science and technological innovation wield unfathomable power in the shaping of social life and the environment. Yet, the democratic control and shaping of technology remains at best an unfinished project, not least due to dominant paradigms of governance implicitly that have historically delegated the good to market forces. This Element explores responsible innovation as an emergent discourse in governing science and society relations. Specifically, it explores the making of responsible innovation through three lenses: first, as a way of reconfiguring the concept of responsibility in science governance with far-reaching implications for scientific culture and practice; second, as a way of injecting agency through deliberative methods aimed at anticipating and deliberating upon the kinds of possible worlds that science and technology bring into being; and third, as a framework for governing innovation

sensitive to the dynamics of specific technologies and to the particular socio-political context in which innovation develops.

The Making of Responsible Innovation

Large technological systems, such as seaports, nuclear power stations, wind farms and natural gas extraction, provide vital functions for society. And yet these large technological systems have an impact on different stakeholder groups in both positive and negative ways. This book defines responsible innovation and describes how both the innovation process and the resulting innovation outcome can be designed, created and implemented in a way that respects the various stakeholder groups involved and affected by the system. Taking a case-based approach, a number of large technological systems are profiled, including hydraulic engineering, nuclear energy, smart metering, and wind power. The values of each of the stakeholder groups, and the costs and benefits of the systems presented, are analysed. The book concludes by combining these insights to provide a framework for how responsible innovation of large technological systems can be implemented in practice. The book will be of particular interest to undergraduate and postgraduate students and researchers in technology and innovation management, and corporate governance, CSR and business ethics.

Responsible Innovation. Guide

At a time when the limits on human progress are ever-decreasing and the consequences of human actions have never been so critical to predict and manage, the responsible nature of innovations has acquired a whole new importance. Firms now need to find the appropriate balance between achieving positive growth and performance while integrating the concept of responsible innovation at the very core of innovation strategies and processes. Based on extensive academic research and illustrated by multiple case studies and examples, this book will help understand the challenges and issues of responsible innovation for leaders and managers. It will also provide a process for implementing responsible innovation into an organization while improving performance sustainably. Contents:IntroductionThe Emergence of the Responsible Innovation ConceptThe Uncertain Nature of the Innovation EnvironmentA Global Integration of Responsible Innovation into OrganizationsPolicy Case for Responsible InnovationResponsible Innovation within Research and EducationAchieving Responsible Innovation and Optimizing on PerformanceConclusion Readership: Students and academics in innovation studies; managers and leaders handling innovation activities in organizations. Keywords:Innovation;Responsibility;Strategy;Management;Responsible Innovation;Global IntegrationKey Features:Serves as a critical tool for SMEs and large-scale organizations wishing to implement a responsible innovation strategyGoes beyond the theory of responsible innovation and provides a process for integrating responsibility into an organization's various activities as well as their innovation process

Responsible Innovation in Large Technological Systems

Powerful new approaches and advances in medical systems drive increasingly high expectations for healthcare providers internationally. The form of digital healthcare – a suite of new technologies offering significant benefits in cost and quality – allow institutions to keep pace with society’s needs. This book covers the need for responsible innovation in this area, exploring the issues of implementation as well as potential negative consequences to ensure digital healthcare delivers for the benefit of all stakeholders.

Responsible Innovation

Responsible Research and Innovation provides a comprehensive and impartial overview of the European Commission’s Responsible Research and Innovation (RRI) framework, including discussion of both the meaning and aims of the concept, and of its practical application. As a governance framework for research and innovation, RRI involves four key perspectives: ethical, economic/business, legal and governance and political. The book is organised into chapters covering these different dimensions. The authors provide different viewpoints on these aspects, in order to offer guidance from experts in the field, while at the same time acknowledging the interpretative openness of the RRI frameworks.

Responsible Innovation in Digital Health

This open access book summarizes research being pursued within the SISCODE (Society in Innovation and Science through CO-DEsign) project, funded by the EU under the H2020 programme, the goal

of which is to set up an analytical, reflective and learning framework to explore the transformations in initiatives and policies emerging from the interaction between citizens and stakeholders. The book provides a critical analysis of the co-design processes activated in 10 co-creation labs addressing societal challenges across Europe. Each lab as a case study of real-life experimentation is described through its journey, starting from the purpose on the ground of the experimentation and the challenge addressed. Specific attention is then drawn on the role of policies and policy maker engagement. Finally, the experimentation is enquired in terms of its output, transformations triggered within the organization and the overall ecosystem, and its outcomes, opening the reasoning towards the lessons learnt and reflections that the entire co-creation journey brought.

Responsible Research and Innovation

This book analyses the relationships among product safety strategy and culture, concurrent engineering, new product development (NPD) processes and product safety performance. Product safety is a matter of enormous economic and societal concern, given the safety risks to consumers and the financial risks to producers. Nevertheless, a thorough conceptual understanding of the effects of NPD policies and practices is still largely missing, as several large-scale trends have made clarifying the role of product safety in its socio-economic context difficult, including: the rise of consumerism and the shift in the balance of power from manufacturers to customers and regulators; the internationalization of value chains and the fragmentation of markets worldwide; and technological change leading to a sophistication of products that rendered average consumers increasingly unaware of risk and potential accidents. This volume sets out to close the gaps among research, practice and policy, with an emphasis on advocating responsible product innovation. Through an in-depth study of the durable juvenile products industry, the authors discover important relationships, for example that top management involvement, safety-first culture and robust NPD processes are paramount in increasing product safety and decreasing product recalls in firms. On the other end of the spectrum, concurrent engineering does not automatically lead to product safety, they found no “magic bullet” through which product safety can be tied to the use of a particular tool, skill, or practice. Offering a dynamic framework for aligning the interests of multiple stakeholders, including manufacturers, regulators, and consumers, the authors provide a clearer understanding of product safety and its implications for scholars, students, policy makers, and practitioners in the areas of innovation management, product management, R&D management, and responsible research and innovation.

Co-creation for Responsible Research and Innovation

This book gathers case studies presented at the International Conference on Responsible Research and Innovation in Science, Innovation and Society (RRI-SIS2017). It highlights European initiatives and projects in various domains and contexts, each of which explores how to create guidelines and good practices for Responsible Research and Innovation and how to promote them among citizens, industry stakeholders, policy and decision makers, research funders and educational institutions to foster their adoption as a potential benchmark in establishing RRI processes. Further, the book discusses gender and ethical issues, which are highly relevant for RRI initiatives in connection with representativeness, risks and in some cases, minority rights.

Responsible Product Innovation

Economic development is rooted in disruption, not in equilibrium. And a powerful engine of economic development is innovation; but is this innovation always for the common good? The dark side of the extraordinary dynamism of innovation lies precisely in its destructive power. If simply left to market forces, it could lead to social chaos and great human suffering. To face the challenges of our time, we must create the proper climate and culture to develop strong entrepreneurial drive. But, more than ever, we must give this entrepreneurial drive its ethical and societal dimensions. Responsible innovation means a more voluntary orientation towards the great problems of the 21st century, e.g. depletion of the planet’s resources, rising inequality, and new scientific developments potentially threatening freedom, democracy and human integrity. We need to transform our ceaseless creativity into real progress for humankind. In this respect, the rapid development of social innovation opens the door for new methods and practices. In Responsible Innovation, Philippe de Woot challenges conventional ways of thinking. This book has the power to shift accepted norms in our ways of doing business.

Responsible Research and Innovation Actions in Science Education, Gender and Ethics

Responsible research and innovation (RRI) is a governance framework promoted by influential policy makers such as the European Commission and academics from the fields of science and technology studies and management. This book is the first text to serve industry. Inspired by existing Corporate Responsibility standards and principles, it offers a selection of tools that can assist practitioners in implementing RRI in business and industry. Responsible Research and Innovation (RRI) is integrative. It is a convergence of Technology Assessment (TA) and Ethics, including corporate responsibility. The task of linking RRI to existing frameworks has only just begun. This book is a welcome example, showing how Corporate Responsibility tools can drive the implementation of RRI. Prof. Armin Grunwald, Head of the Office of Technology Assessment at the German Bundestag and Head of the Institute for Technology Assessment and Systems Analysis, Karlsruhe Institute of Technology, Germany. This is a simple, short, yet encyclopaedic work designed to help business implement RRI using the many tools of Corporate Responsibility (CR) already in place, everything from ISO9001 to the Ceres Roadmap for Sustainability. It makes clear the ways in which RRI is an extension of ideas already well-developed in CR. I learned a lot reading it. Prof. Michael Davis, Senior Fellow, Center for the Study of Ethics in the Professions, Illinois Institute of Technology, USA Increase the chance of success for your startup's business idea by using your future customers' knowledge about the market! This engagingly written book explains how. Dr Thomas Frenken, CEO oldntec, Germany

Responsible Innovation

This book examines the possibility of socially responsible innovation in security, using an interdisciplinary approach. Responsible innovation in security refers to a comprehensive approach that aims to integrate knowledge related to stakeholders operating at both the demand and the supply side of security – technologists, citizens, policymakers and ethicists. Security innovations can only be successful in the long term if all the social, ethical and ecological impacts, and threats and opportunities, both short term and long term, are assessed and prioritized alongside technical and commercial impacts. The first part of this volume focuses on security technology innovation and its perception and acceptance by the public, while the second part delves deeper into the processes of decision-making and democratic control, raising questions about the ethical implications of security ruling. This book will be of much interest to students of critical security studies, sociology, technology studies and IR in general.

Responsible Research and Innovation in Industry

Experiments in geoengineering – intentionally manipulating the Earth’s climate to reduce global warming – have become the focus of a vital debate about responsible science and innovation. Drawing on three years of sociological research working with scientists on one of the world’s first major geoengineering projects, this book examines the politics of experimentation. Geoengineering provides a test case for rethinking the responsibilities of scientists and asking how science can take better care of the futures that it helps bring about. This book gives students, researchers and the general reader interested in the place of science in contemporary society a compelling framework for future thinking and discussion.

Socially Responsible Innovation in Security

The Handbook of Sustainable Innovation maps the multiple lineages of research and understanding that constitute academic work on how technological change relates to sustainable practices of production and consumption. Leading academics contribute by mapping the general evolution of this academic field, our understanding of sustainable innovation at the firm, user, and systems level, the governance of sustainable innovation, and the methodological approaches used. The Handbook explores the distinctiveness of sustainable innovation and concludes with suggestions for generating future research avenues that exploit the current diversity of work while seeking increased systemic insight.

Experiment Earth

This book provides methods and practical cases and experiences with the aim of stimulating Responsible Research and Innovation (RRI) through the direct engagement of researchers, Civil Society Organisations (CSOs), citizens, industry stakeholders, policy and decision makers, research funders and communicators. The book furthermore aims to advance debate on Responsible Research and Innovation and also to reinforce the RRI community identity. With chapters covering governance, public

engagement and inclusion in responsible R&D and innovation processes; RRI actions in science education and communication; gender and ethical issues in RRI initiatives; and sustainability of RRI processes, the book is solidly part of the Europe 2020 strategy to promote a vision for a stronger collaborations between social, natural and physical scientists and the societal actors for a wider dimensions of science and innovation and the role in environmental preservation. Chapters 1 and 3 are open access under a CC BY 4.0 license via link.springer.com.

Handbook of Sustainable Innovation

Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 1 is the first of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in todays information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity.

Governance and Sustainability of Responsible Research and Innovation Processes

For fifty years, innovations have taken on a new dimension: the Internet, DNA sequencing, genomic manipulations, advances in transhumanism, nanotechnologies ... and much more. These recent innovations are not without addressing new issues whose consequences are as important as irreversible. The innovator, of whom Steve Jobs and Mark Zuckerberg are emblematic contemporary figures, appears as a personality as brilliant as he is destructive, who aspires to change the world regardless of the violence that may ensue. With this then, emerges the need to establish responsible innovation, in which the innovator should be accountable for his actions and review his position as a hero. To establish this new ethic, philosophy is a necessary recourse, since it questions, among other things, the self-control of the Stoics, the prudence of Aristotle, respect of Kant, the will power of Nietzsche and the power of Foucault.

Innovation Economics, Engineering and Management Handbook 1

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

Toward Responsible Innovation: Responsibility And Philosophy For A Humanely Sustainable Future

Critically assessing growth-based models of innovation policy, this enlightening study sparks new debate on the role and nature of responsible innovation. Drawing on insights from economics, politics, and science and technology studies, it proposes the concept of 'responsible stagnation' as an expansion of present discussions about growth, degrowth, responsibility and innovation within planetary limitations. This important intervention explores real-world relationships between the political economy, innovation policy and concepts of responsibility, and will be an invaluable resource for individuals and civil society organizations who seek to promote responsible innovation.

Citizen Science

This book provides readers with in-depth insights into Corporate Social Responsibility (CSR) and sustainability strategies, as well as their impacts on product and process innovation, business models and social innovation around the globe. It explains how resource issues, climate change, the impacts of pollution and economic activities, and emerging social challenges inevitably lead to changes in the business environment, cost structure and competitive advantage. Further, it highlights how these changes influence the process of innovation, and how companies can gain an edge by integrating stakeholder groups in their innovation process, and by considering sustainability and the needs of society at large. The book reflects the immense strides made in recent years in the discussion about the relationship between business and society, and demonstrates the increasing impact on innovation management.

Responsibility Beyond Growth

Responsible Innovation. For some, this expression is only an oxymoron or, worse, a means of masking with a sheet of virtue economic practices that would otherwise appear selfish and self-interested. For others, theorists and actors of innovation, this expression represents a formidable lever of action and a rich conceptual source from which to draw new ways of innovating. The articulation between different levels of norms – economic and ethical, to which we can add the legal dimension – is not new, and is the subject of an in-depth reflection, decades old, around the idea of Corporate Social Responsibility (CSR). By taking up some debates on CSR, most of which are foreign to the current authors of responsible innovation, this book examines the various justifications that CSR brings in order to convince economic players, subject to powerful market forces, of their responsible commitment. But these are not enough. The book also explores the specific contribution of the concept of responsible innovation to coping with the technological, social and political breakthroughs generated by innovation, and is based on philosophical resources such as the ethics of virtue and the ethics of “care”.

Innovation Management and Corporate Social Responsibility

Critically assessing growth-based models of innovation policy, this enlightening study sparks new debate on the role and nature of responsible innovation. Drawing on insights from economics, politics, and science and technology studies, it proposes the concept of 'responsible stagnation' as an expansion of present discussions about growth, degrowth, responsibility and innovation within planetary limitations. This important intervention explores real-world relationships between the political economy, innovation policy and concepts of responsibility, and will be an invaluable resource for individuals and civil society organizations who seek to promote responsible innovation.

Business, Innovation and Responsibility

As we grapple with how to respond to some of the world’s most pressing problems, such as inequality, poverty and climate change, there is growing global interest in ‘social innovation’ as a potential solution. But what exactly is ‘social innovation’? This book describes three ways to theorise social innovation when seeking to manage and organize for both social and economic progress.

Responsibility Beyond Growth

This book introduces the field of Responsible Innovation in Health (RIH) by clarifying its theoretical foundations and the practical approaches that enable the design and production of responsible medical devices, health and social care interventions, digital tools and solutions based on artificial intelligence. It brings a lasting impact on the ways innovation stakeholders think about and develop solutions to twenty-first century challenges, including the Sustainable Development Goals (SDGs).

Theories of Social Innovation

WALL STREET JOURNAL BESTSELLER A pioneering venture capitalist provides an actionable framework for founders and executives to create innovative, enduring companies built for growth and for societal good. The Milton Friedman philosophy that companies exist only to increase shareholder value is dead and buried. The old Silicon Valley tenets of “move fast and break things,” minimum viable products, and hyper engagement at any cost must be replaced with new principles for an era of responsible innovation. We can no longer manage businesses solely for growth. With innovation comes responsibility: to generate returns beyond profits and to recenter technology as a force for good in the

world. This requires a shift in the way organizations approach and value work. A company's mindset—its intent to do good, avoid harmful consequences, and innovate responsibly—is not enough. That mindset must be supported by a business model, a mechanism that leaders must intentionally and proactively build along with the company from the ground up, one that incentivizes and rewards the organization for fulfilling its intentions. Companies need a new set of KCIs, or key consequence indicators, that measure factors such as its impact on customers' energy consumption, whether its product is being used equally across socioeconomic groups, or if it is actually solving the social problem it is addressing. Not only is this the right thing to do—increasingly, it is what customers, employees, and shareholders demand of business. In this inspiring, practical, and actionable guide, Hemant Taneja: lays out the argument for why a new model of company building and leadership is necessary—and how it can lead to better performance explores why social-good businesses are some of the greatest opportunities today, detailing examples of billion-dollar startups that are addressing inequality, climate change, systemic societal problems, and chronic disease—all while generating profit and positive shareholder returns presents a topic-by-topic road map that addresses business models, artificial intelligence, ethical growth, culture, governance, and good citizenship Intended Consequences is designed as the ultimate playbook for founders, entrepreneurs, leadership teams, and investors on how to build and maintain a responsible innovation company.

Responsible Innovation in Health

"Worth a read for anyone who cares about making change happen."—Barack Obama A powerful new blueprint for how governments and nonprofits can harness the power of digital technology to help solve the most serious problems of the twenty-first century As the speed and complexity of the world increases, governments and nonprofit organizations need new ways to effectively tackle the critical challenges of our time—from pandemics and global warming to social media warfare. In Power to the Public, Tara Dawson McGuinness and Hana Schank describe a revolutionary new approach—public interest technology—that has the potential to transform the way governments and nonprofits around the world solve problems. Through inspiring stories about successful projects ranging from a texting service for teenagers in crisis to a streamlined foster care system, the authors show how public interest technology can make the delivery of services to the public more effective and efficient. At its heart, public interest technology means putting users at the center of the policymaking process, using data and metrics in a smart way, and running small experiments and pilot programs before scaling up. And while this approach may well involve the innovative use of digital technology, technology alone is no panacea—and some of the best solutions may even be decidedly low-tech. Clear-eyed yet profoundly optimistic, Power to the Public presents a powerful blueprint for how government and nonprofits can help solve society's most serious problems.

Intended Consequences: How to Build Market-Leading Companies with Responsible Innovation

This Open Access book builds on the experiences of one of the largest European projects in the domain of responsible Research and Innovation: NewHoRRIzon. It highlights the potential of and opportunity in responsible R&I to conduct innovation in a socially responsible way. Employing the methodology of Social Labs, the book analyses responsible R&I from an experience-based viewpoint and further explores the application of responsible R&I beyond scholarly and industrial interests. The contributors analyze the current European R&I landscape, provide reflection and reconceptualization of its core concepts, and project future challenges in relation to responsible R&I. The book complements the readers' line of work by providing insights on how responsible R&I can be applied by the audience, for example, in their decision-making processes.

Power to the Public

A practical framework for thinking about the future... and an exploration of 'future consciousness' and how to develop it

Putting Responsible Research and Innovation into Practice

This handbook provides academics and students with a comprehensive and holistic understanding of the phenomenon of innovation.

Three Horizons

This book features state-of-the-art studies on the responsible innovation management. It illustrates the innovative methods from socio-economic and sustainable development dimensions and specifically mentions digitalisation’s dark side, technology application challenges and enterprises management issues. The selected works contain enormous new case studies exploring ways to improve the development of related industries from responsible innovation perspectives. It covers about the multidisciplinary areas, and hence, it fosters close collaboration between researchers in diverse fields such as social science, economics and engineering. Researchers, corporate executives and engineers in these areas can benefit from the book.

The Oxford Handbook of Innovation

Using our moral and technical imaginations to create responsible innovations: theory, method, and applications for value sensitive design. Implantable medical devices and human dignity. Private and secure access to information. Engineering projects that transform the Earth. Multigenerational information systems for international justice. How should designers, engineers, architects, policy makers, and others design such technology? Who should be involved and what values are implicated? In Value Sensitive Design, Batya Friedman and David Hendry describe how both moral and technical imagination can be brought to bear on the design of technology. With value sensitive design, under development for more than two decades, Friedman and Hendry bring together theory, methods, and applications for a design process that engages human values at every stage. After presenting the theoretical foundations of value sensitive design, which lead to a deep rethinking of technical design, Friedman and Hendry explain seventeen methods, including stakeholder analysis, value scenarios, and multilifespan timelines. Following this, experts from ten application domains report on value sensitive design practice. Finally, Friedman and Hendry explore such open questions as the need for deeper investigation of indirect stakeholders and further method development. This definitive account of the state of the art in value sensitive design is an essential resource for designers and researchers working in academia and industry, students in design and computer science, and anyone working at the intersection of technology and society.

Responsible Innovation Management

Value Sensitive Design