Handbook Of Innovation Indicators And Measurement Elgar Original Reference

Handbook of Innovation Indicators and Measurement *Science, Technology and Innovation Indicators in a Changing World* **Indicator Systems for Sustainable Innovation** *Issues in Innovation, Indicators, and Management in Technology: 2013 Edition* Improving Measures of Science, Technology, and Innovation **Capturing Change in Science, Technology, and Innovation** National Innovation, Indicators and Policy **Innovation and Growth** *Innovation Economics, Engineering and Management Handbook 1* **The Measurement of Scientific, Technological and Innovation Activities Oslo Manual 2018 Guidelines for Collecting, Reporting and Using Data on Innovation, 4th Edition The role of indicators in decisions of technology innovation** *National Innovation, Indicators and Policy* **Innovation Barriers, Indicators and Policies Web-ased Innovation Indicators - which Firm Website Characteristics Relate to Firm-level Innovation Activity? Handbook of Innovation Indicators and Measurement** *Science, Technology and Innovation Indicators* **New Concepts in Innovation Output Measurement Foundations of the Economics of Innovation** *Measuring Innovation A New Perspective* Measuring Innovation A New Perspective **Science, Technology and Innovation Indicators in a Changing World Responding to Policy Needs** New Indicators for Science, Technology and Innovation in the Knowledge-based Society *Handbook of Research on Expanding Business Opportunities With Information Systems and Analytics* **Measuring and Accounting for Innovation in the Twenty-First Century** *Sustainable Growth and Development of Economic Systems* **Export as a Measure of Innovation Performance in the Clean Energy Sector Springer Handbook of Science and Technology Indicators** Determinants of Innovation Services and the Knowledge-Based Economy *Global Innovation Index 2020 Innovation and Small Business - Volume 1* **Innovation and Public Policy** *Quantitative indicators for country-level innovation ecosystems* **The OECD Innovation Strategy Getting a Head Start on Tomorrow** The Measurement of Scientific, Technological and Innovation Activities Frascati Manual 2015 Guidelines for Collecting and Reporting Data on Research and Experimental Development **National Systems of Innovation in Comparison Handbook on Constructing Composite Indicators: Methodology and User Guide** *Industrial Research and Innovation Indicators* Innovation in Firms A Microeconomic Perspective The Rate and Direction of Inventive Activity Revisited

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National Innovation, Indicators and Policy Nov 18 2021 This book takes stock of what is known about the process of innovation and its effects, and the policy interventions that influence both. It provides insights into future research required to support evidence-based policy-making and makes clear the need to take a systems approach to the analysis of innovation, its outcomes and its impacts. The contributors explore the fact that economic theory, statistical measurement and the need to achieve targets are combining to shift policy focus towards the economic and social impacts of innovation. This is forcing economists and statisticians to look for new measures, indicators, and analytical frameworks to support the public policy debate and the implementations of change necessary for success. The book emphasizes the importance of linkages and communities of practice in measuring and analyzing innovation, and focuses on: the importance of social sciences as well as natural sciences to the activity of innovation. policy-relevant discussions on the measurement gaps in the activity of innovation quantitative results of analysis relating to the output of innovation activities theoretical frameworks and concepts for measurement of the activity of innovation suggestions for new measurement directions for the activity of innovation which will lead into an international forum to discuss indicator development at the OECD over the next decade. Illustrating that the expectations of innovation policies are being raised, this book will prove fascinating reading for policy analysts, economists, academics and students with an interest in innovation, industrial dynamics and science and technology.

Innovation and Public Policy Feb 27 2020 Using the latest empirical and conceptual research for readers in economics, business, and policy, this volume surveys the key components of innovation policy and the social returns to innovation investment. In advanced economies like the United States, innovation has long been recognized as a central force for increasing economic prosperity and human welfare. Today, the US government promotes innovation through various mechanisms, including tax credits for private-sector research, grant support for basic and applied research, and institutions like the Small Business Innovation Research Program of the National Science Foundation. Drawing on the latest empirical and conceptual research, Innovation and Public Policy surveys the key components of innovation policy and the social returns to innovation investment. It examines mechanisms that can advance the pace of invention and innovative activity, including expanding the research workforce through schooling and immigration policy and funding basic research. It also considers scientific grant systems for funding basic research, including those at institutions like the National Institutes of Health and the National Science Foundation, and investigates the role of entrepreneurship policy and of other institutions that promote an environment conducive to scientific breakthroughs.

Science, Technology and Innovation Indicators in a Changing World Sep 28 2022 There is a growing interest in improving the understanding of how science, technology and innovation create value in the form of increased productivity and profits, contributing to the valuation of enterprises and ultimately stimulating the growth and competitiveness of economies. This publication contains a selection of papers discussed at the OECD Blue Sky II Forum, held in Ottawa, Canada in September 2006. Matters discussed include: policy needs, measurement issues and some of the challenges in describing cross-cutting and emerging topics in science, technology and innovation; as well as ideas to exploit existing data and develop new frameworks of measurement.

Handbook of Innovation Indicators and Measurement Aug 15 2021 'A great book to understand and foster innovation at all levels: a truly innovative piece of work.' Enrico Giovannini, Minister of Labour and Social Policies, Italy 'This book brings together original contributions from world leading experts on innovation indicators and is unique in several respects. First, the focus is upon innovation in terms of commercialized products and processes and not on secondary indicators of research or patenting. Second, it combines academic perspectives with user perspectives from industry and international organizations. Third, it strikes a good balance between old and new indicators, opening up new dimensions of innovation for measuring. It is a book worth reading for scholars studying innovation, for policy makers and, not least, for innovation managers in the private sector.' Bengt-Åke Lundvall, Aalborg University, Denmark and Sciences-Po, Paris, France This Handbook comprehensively examines indicators and statistical measurement related to innovation (as defined in the OECD/Eurostat Oslo Manual). It deals with the development and the use of innovation indicators to support decision-making and is written by authors who are practitioners, who know what works and what does not, in order to

improve the development of indicators to satisfy future policy needs. This unique volume presents: the historical and geographical context for innovation indicators and measurement practical examples of how measurement is actually undertaken new areas of innovation indicators and measurement, including consumer innovation, public sector innovation and social innovation. This informative Handbook will appeal to policy makers in government departments, statistical offices and research institutes and international organizations such as the EU, OECD and the UN, as well as university departments of economics, sociology, law, science and technology, and public policy.

Sustainable Growth and Development of Economic Systems Oct 05 2020 This contributed volume presents the outcomes of multidisciplinary studies on the problem of sustainable economic development. The key issues addressed here are economic transformation, crisis management, formation and implementation of industrial policy in the innovative economy, and the development of individual industries (oil refining, transport, education, tourism, the financial sector, etc.), as well as the problem of resistance to changes in the economy. Special attention is paid to economic growth under unstable conditions and the impact of digitalization on the development of economic processes. This book is dividided into five parts, the first of which deals with factors and conditions determining the sustainable development of different socio-economic systems, as well as issues in connection with the post-crisis development of regional economies. In turn, the second part is devoted to an analysis of the innovative development of the economy, risk assessment for innovation projects, readiness for changes and innovations, and various instruments of innovative economic development. Prospects for the digitalization of the economy and the current changes in economic systems caused by digitalization are considered in the third part of the book. In the fourth part, the authors discuss the specific features of labor market development, and professional competencies that will be essential to the sustainable development of the economy. In closing, the fifth part presents sectoral and intra-organizational aspects of sustainable economic development.

Web-ased Innovation Indicators - which Firm Website Characteristics Relate to Firm-level Innovation Activity? Sep 16 2021

Innovation Barriers, Indicators and Policies Oct 17 2021 Innovation Barriers, Indicators and Policies explores the historical coevolution of these three core concepts in the field: barriers, indicators, and policies. The authors show how these concepts have coevolved and reinforced each other throughout the history of Innovation Studies. This detailed historical review on the general conception of innovation is warranted in order to support a clear understanding of innovation barriers, indicators, and related policies as they have been shaped and co-evolved through time. Based on the thorough review of innovation barriers undertaken herein, we see that financial and non-financial obstacles do not affect the innovation output directly. Instead they impede the effect of the innovation determinants, whether these determinants are firm-specific, network-specific, or referring to the contextual environment. Section 2 presents a thorough discussion on the historical evolution of the innovation concept and its connection to the concepts of barriers, indicators, and policies. Section 3 discusses the beginnings of the measurement of innovation barriers, as well as the linkage between the study of obstacles to innovation and a policy-driven approach towards scientific and technological progress. Finally, Section 4 concludes with the main findings and avenues for future study.

Measuring Innovation A New Perspective Apr 11 2021 Measuring Innovation is a major step towards evidence-based innovation policy making. It complements traditional “positioning”-type indicators with ones that show how innovation is, or could be, linked to policy.

Science, Technology and Innovation Indicators in a Changing World Responding to Policy Needs Feb 09 2021 A conference proceedings that discusses policy needs, measurement issues, and some of the challenges in describing cross-cutting and emerging topics in science, technology and innovation.

New Indicators for Science, Technology and Innovation in the Knowledge-based Society Jan 08 2021

Innovation and Small Business - Volume 1 Mar 30 2020

The Measurement of Scientific, Technological and Innovation Activities Oslo Manual 2018 Guidelines for Collecting, Reporting and Using Data on Innovation, 4th Edition Jan 20 2022 What is innovation and how should it be measured? Understanding the scale of innovation activities, the characteristics of innovative firms and the internal and systemic factors that can influence innovation is a prerequisite for the pursuit and analysis of policies aimed at fostering innovation.

Handbook on Constructing Composite Indicators: Methodology and User Guide Sep 23 2019 A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.

Indicator Systems for Sustainable Innovation Aug 27 2022 In the recent past, environmental innovations have led to a considerable reduction of many pollutants; however, further innovation is required to tackle remaining pollution sources. This work analyses the significance and the effects of framework conditions on innovation activities that contribute to the realisation of a sustainable development. The book links the experiences of different research projects with the aim to develop a system of indicators to evaluate sustainable effects of (environmental) innovations. A comprehensive framework for an indicator system is established that allows to include different environmental innovation fields such as process innovations in the steel production, substitution of dangerous chemicals, organisational innovations in the field of waste disposal or sustainable water management.

The Measurement of Scientific, Technological and Innovation Activities Frascati Manual 2015 Guidelines for Collecting and Reporting Data on Research and Experimental Development Nov 25 2019 The internationally recognised methodology for collecting and using R&D statistics, the OECD's Frascati Manual is an essential tool for statisticians and science and innovation policy makers worldwide. It includes definitions of basic concepts, data collection guidelines, and classifications ...

Capturing Change in Science, Technology, and Innovation May 24 2022 Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. Capturing Change in Science, Technology, and Innovation assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The recommendations offered in Capturing Change in Science, Technology, and Innovation are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

Measuring Innovation A New Perspective Mar 10 2021 Measuring Innovation is a major step towards evidence-based innovation policy making. It complements traditional “positioning”-type indicators with ones that show how innovation is, or could be, linked to policy.

Handbook of Innovation Indicators and Measurement Oct 29 2022 'This book brings together original contributions from world leading experts on innovation indicators and is unique in several respects. First, the focus is upon innovation in terms of commercialized products and processes and not on secondary indicators of research or patenting. Second, it combines academic perspectives with user perspectives from industry and international organizations. Third, it strikes a good balance between old and new indicators, opening up new dimensions of innovation for measuring. It is a book worth reading for scholars studying innovation, for policy makers and, not least, for innovation managers in the private sector.' - Bengt-Åke Lundvall, Aalborg University, Denmark and Sciences-Po, Paris, France

Measuring and Accounting for Innovation in the Twenty-First Century Nov 06 2020 "Measuring innovation is a challenging task, both for researchers and for national statisticians. This task is timely and valuable given that policy and public interest in innovation has become

increasingly intense in this era of digital revolution, yet National GDP Accounts and other economic statistics do not fully account for the wide range of innovative activity that is plainly evident in everyday experience. Indeed, innovation has in many ways changed the structure of an increasingly digitized marketplace, from cloud computing to the gig economy. The papers collected in this volume, Measuring and Accounting for Innovation in the Twenty-First Century, address many different dimensions of this challenge, ranging from how to best to define GDP to the fundamental question of what is an innovation and how to collect data at the level of an individual innovation. Taken together, the volume provides a comprehensive overview of the cutting-edge of this widely varied but thematically-connected research that draws on multiple methodologies and data. The editors and authors consider how measurement frameworks could be expanded to enhance our understanding of innovative activity; new approaches and evidence that could account for innovation's economic impact; innovation's effect across the economy, from production processes to labor markets and financial activities; and what practical adjustments could be made to current measurements that would better capture innovation. The distinctive stance of this volume makes clear that the challenge of measuring innovation and understanding its implications has become increasingly complex as the economy has evolved. The editors and authors show that the limitations of our existing measurement system significantly hinder researchers, analysts, and policymakers. Better measures of innovative activity are necessary to interpret the consequences of innovation in daily life and to inform policies that best promote the attendant benefits, including distribution of income, trademark protections, and more. Now, in an era of fake news and alternative facts, it is more important than ever to push for accuracy in basic economic facts"--

Determinants of Innovation Jul 02 2020 Micro-econometric analyses cover a wide range of new innovation 'input' and 'output' indicators. Among the robust findings about determinants of innovation is evidence on the importance of technological opportunity, of appropriability of innovation benefits, and of Schmooklerian demand-pull effects. As opposed to the evidence from standard R&D data, small firms appear more innovative and the impact of market power on innovation is, in the best case, modest.

Innovation in Firms A Microeconomic Perspective Jul 22 2019 This book presents the main results of the OECD Innovation Microdata Project -- the first large-scale effort to exploit firm-level data from innovation surveys across 20 countries in an internationally harmonised way, with a view to addressing common analytical questions.

National Systems of Innovation in Comparison Oct 25 2019 The concept of National Systems of Innovation was introduced as a method to describe the various elements which contribute to innovation performance and their interaction. In this book, the innovation structures of a broad set of countries are compared. It provides more than a pure compilation of quantitative indicators for international benchmarking, supporting an appropriate interpretation of the referring results and suggesting relevant conclusions for innovation policy.

Export as a Measure of Innovation Performance in the Clean Energy Sector Sep 04 2020 The Clean Energy Innovation Index (CEII) is a composite indicator designed to track progress in clean energy innovation performance, as measured through the lens of scientific publications, patents and trade. This report focuses on the export dimension of the CEII. The report provides details on the assessment of different export-related indicators and selection of those most suitable for inclusion in the composite indicator; insights on CET innovation performance from the perspective of export flows; and details on the export dataset for inclusion in composite indicator calculations.

Science, Technology and Innovation Indicators Jul 14 2021 Innovations in the African context, especially sub-Saharan Africa, which has a large informal economy cannot be measured with the conventional metrics employed in developed economies. Hence, it is important to build capacity to develop appropriate system of innovation indicators for the African countries. The contributions in this edited book reflect on both informal and formal sectors by exploring why we need to and how we can develop innovation indicators that are appropriate for measuring and understanding the dynamics of the innovation in different sectors across different countries in Africa.

Innovation Economics, Engineering and Management Handbook 1 Feb 21 2022 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.

Services and the Knowledge-Based Economy Jun 01 2020 First published in 2000. Over the past two decades, the service sector have increased dramatically and now occupy the largest share of the economy of advanced industrial societies. Certain business services are regularly cited as evidence for the emergence of a "knowledge economy". In this pioneering book, leading researchers in the fields of service industries and innovation studies investigate the reasons for the growth of the service sectors and this emergent knowledge economy. Drawing on material as diverse as macroeconomic statistics and firm-level case studies, the contributors demonstrate that services are often important innovators in their own right, as well as contributing to innovation and economic performance in their user industries. The question of how far services are special cases, and what specific processes and trajectories characterize their innovative activity is treated systematically. Additionally, a variety of original analyses and information resources are presented. This book should be of value to the student of the modern industrial society, to those seeking to forge policies appropriate to the new context of economic development, and to researchers who are confronting the challenges of the knowledge economy.

Quantitative indicators for country-level innovation ecosystems Jan 28 2020 Innovation has been shown to be a key factor in determining a country’s competitiveness and economic growth potential. Through investments in education and research and development, many developing countries have tried to avoid the “middle income trap” of stagnation by working to create high-value employment opportunities. To better understand country-level readiness to innovate, we have compiled a set of publicly available data indicators and created a data tool to illustrate innovation capabilities and infrastructure by country. Our approach builds on and advances existing national innovation metrics by constructing transparent, publicly sourced indicators that emphasize changes over time and interrelationships between different indicators, as opposed to creating simple indices across groups of indicators. This occasional paper is targeted to an applied audience, explaining the methods used to assemble the data, an overview of the indicators, practical applications of the data, summary statistics, and data limitations. The data are not intended to be a tool for providing answers about innovation, but rather a starting point for future work including market landscaping, country-level diagnostics, and qualitative protocols for research.

Improving Measures of Science, Technology, and Innovation Jun 25 2022 The National Center for Science and Engineering Statistics (NCSES), at the U.S. National Foundation, is 1 of 14 major statistical agencies in the federal government, of which at least 5 collect relevant information on science, technology, and innovation activities in the United States and abroad. The America COMPETES Reauthorization Act of 2010 expanded and codified NCSES's role as a U.S. federal statistical agency. Important aspects of the agency's mandate include collection, acquisition, analysis, and reporting and dissemination of data on research and development trends, on U.S. competitiveness in science, technology, and research and development, and on the condition and progress of U.S. science, technology, engineering, and mathematics (STEM) education. Improving Measures of Science, Technology and Innovation: Interim Report examines the status of the NCSES's science, technology, and innovation (STI) indicators. This report assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators designed to better reflect fundamental and rapid changes that are reshaping global science, technology and innovation systems. The book also determines the international scope of STI indicators and the need for developing new indicators that measure developments in innovative activities in the United States and abroad, and Offers

foresight on the types of data, metrics and indicators that will be particularly influential in evidentiary policy decision-making for years to come. In carrying out its charge, the authoring panel undertook a broad and comprehensive review of STI indicators from different countries, including Japan, China, India and several countries in Europe, Latin America and Africa. Improving Measures of Science, Technology, and Innovation makes recommendations for near-term action by NCSES along two dimensions: (1) development of new policy-relevant indicators that are based on NCSES survey data or on data collections at other statistical agencies; and (2) exploration of new data extraction and management tools for generating statistics, using automated methods of harvesting unstructured or scientometric data and data derived from administrative records.

National Innovation, Indicators and Policy Apr 23 2022 This book takes stock of what is known about the process of innovation and its effects, and the policy interventions that influence both. It provides insights into future research required to support evidence-based policy-making and makes clear the need to take a systems approach to the analysis of innovation, its outcomes and its impacts.

New Concepts in Innovation Output Measurement Jun 13 2021 This collection of papers describes advances in the measurement of innovation output, principally through the use of a new technique based on scanning of trade and technical journals. Experience in several countries is assessed and the strength and weaknesses of the technique discussed. The conclusion is that, taken together with recent advances in the design of questionnaires for postal surveys of innovation, this technique provides a radically improved data source for testing innovation theories and for effective policy analysis.

Handbook of Research on Expanding Business Opportunities With Information Systems and Analytics Dec 07 2020 Recent advancements in data collection will affect all aspects of businesses, improving and bringing complexity to management and demanding integration of all resources, principles, and processes. The interpretation of these new technologies is essential to the advancement of management and business. The Handbook of Research on Expanding Business Opportunities With Information Systems and Analytics is a vital scholarly publication that examines technological advancements in data collection that will influence major change in many aspects of business through a multidisciplinary approach. Featuring coverage on a variety of topics such as market intelligence, knowledge management, and brand management, this book explores new complexities to management and other aspects of business. This publication is designed for entrepreneurs, business managers and executives, researchers, business professionals, data analysts, academicians, and graduate-level students seeking relevant research on data collection advancements.

The Rate and Direction of Inventive Activity Revisited Jun 20 2019 This volume offers contributions to questions relating to the economics of innovation and technological change. Central to the development of new technologies are institutional environments and among the topics discussed are the roles played by universities and the ways in which the allocation of funds affects innovation.

Foundations of the Economics of Innovation May 12 2021 'The book is excellent at presenting the problem - the gap between theory and applied work in the economics of innovation - and suggesting a solution. . .' - Katharine Wakelin, the Economic Journal 'Hariolf Grupp has made an outstanding original contribution in this field as readers can easily judge for themselves. His contribution, however, has certainly not been limited to research on technometrics. His empirical work in this and other fields is placed firmly in the context of a carefully developed theoretical framework and leads to a major original contribution to economic theory. This is an excellent book. It constitutes a worthy contribution to the entire international literature and merits publication in several languages. I commend it most strongly to all those who are interested in the new wave of research on evolutionary economics in every country.' - from the preface by Christopher Freeman, SPRU - Science and Technology Policy Research, University of Sussex, UK and Maastricht University, the Netherlands This important new book presents the theoretical, econometric and applied foundations of the economics of innovation as well as offering a new approach to the measurement of technical change. the author, a leading expert in innovation economics and management, critically reviews current schools of thought and presents his own contribution to measurement techniques.

Industrial Research and Innovation Indicators Aug 23 2019 Workshop participants offered a variety of suggestions to the National Science Foundation (NSF) and other federal agencies to improve the usefulness and relevance of data on industrial research and innovation, as well as to increase efficiency in collecting and processing the data. The suggestions dealt with the need to (1) clarify policy information needs; (2) improve the quality, coverage, and collection of existing data items; and (3) identify and collect new types of data.

Innovation and Growth Mar 22 2022 Provides an overview and assessment of established research on firms' strategic choices of R&D efforts and their firm-level returns, and explains the consequences for economy-wide technological change and growth.

Issues in Innovation, Indicators, and Management in Technology: 2013 Edition Jul 26 2022 Issues in Innovation, Indicators, and Management in Technology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Supply Chain Management. The editors have built Issues in Innovation, Indicators, and Management in Technology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Supply Chain Management in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Innovation, Indicators, and Management in Technology: 2013 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Global Innovation Index 2020 Apr 30 2020 The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

The OECD Innovation Strategy Getting a Head Start on Tomorrow Dec 27 2019 This book provides a set of principles for fostering innovation in people (workers and consumers), in firms and in government, taking an in-depth look at the scope of innovation and how it is changing, as well as where and how it is occurring.

Springer Handbook of Science and Technology Indicators Aug 03 2020 This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system. Focusing on various aspects of the development and application of indicators derived from data on scholarly publications, patents and electronic communications, the individual chapters, written by leading experts, discuss theoretical and methodological issues, illustrate applications, highlight their policy context and relevance, and point to future research directions. A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources, presenting both traditional and advanced approaches. It addresses the main bibliographic metrics and indexes, such as the journal impact factor and the h-index, as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society. It also presents and critically discusses various national research evaluation systems. Complementing the sections reflecting on the science system, the technology section includes multiple chapters that explain different aspects of patent statistics, patent classification and database search methods to retrieve patent-related information. In addition, it examines the relevance of trademarks and standards as additional technological indicators. The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners, scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance.

The role of indicators in decisions of technology innovation Dec 19 2021