

# shaping

**the Next One Hundred Years**

**New Methods for  
Quantitative,  
Long-Term Policy  
Analysis**

**Robert J. Lempert  
Steven W. Popper  
Steven C. Banks**

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# Shaping The Next One Hundred Years New Methods For Quantitative Long Term Policy Analysis

**Lloyd Dixon, Robert J. Lempert, Tom  
LaTourrette, Robert T. Reville**



## **Shaping The Next One Hundred Years New Methods For Quantitative Long Term Policy Analysis:**

Shaping the Next One Hundred Years Robert J. Lempert, Steven W. Popper, Steven C. Bankes, 2003 A sophisticated reader ought to view with great skepticism the prospect of answering questions about the long term future The checkered history of predicting the future from the famous declarations that humans would never fly to the Limits to Growth study to claims about the New Economy Has dissuaded policymakers from considering the effects of their decisions more than a few months or years ahead However today's choices will significantly influence the course of the twenty first century New analytic methods enabled by modern computers may transform our ability to reason systematically about the long term This report reviews traditional methods of grappling with the morrow from narratives to scenario analysis which fail to address the multiplicity of plausible long term futures The authors demonstrate a quantitative approach to long term policy analysis LTPA Robust decision methods enable decisionmakers to examine a vast range of plausible futures and design near term often adaptive strategies to be robust across them Reframing the question What will the long term future bring as How can we choose actions today that will be consistent with our long term interests these methods provide powerful analytic support to humans innate capacity for what if ing Choosing the challenge of sustainable development as an example the authors discuss how these methods may be applied to real world LTPA and a wide range of other challenges of decisionmaking under conditions of deep uncertainty

Shaping the Next One Hundred Years Robert J. Lempert, 2003-07-18 A sophisticated reader ought to view with great skepticism the prospect of answering questions about the long term future The checkered history of predicting the future from the famous declarations that humans would never fly to the Limits to Growth study to claims about the New Economy has dissuaded policymakers from considering the effects of their decisions more than a few months or years ahead However today's choices will significantly influence the course of the twenty first century New analytic methods enabled by modern computers may transform our ability to reason systematically about the long term This report reviews traditional methods of grappling with the morrow from narratives to scenario analysis which fail to address the multiplicity of plausible long term futures The authors demonstrate a quantitative approach to long term policy analysis LTPA Robust decision methods enable decisionmakers to examine a vast range of plausible futures and design near term often adaptive strategies to be robust across them Reframing the question What will the long term future bring as How can we choose actions today that will be consistent with our long term interests these methods provide powerful analytic support to humans innate capacity for what if ing Choosing the challenge of sustainable development as an example the authors discuss how these methods may be applied to real world LTPA and a wide range of other challenges of decisionmaking under conditions of deep uncertainty

**Systems of Systems Engineering** Mo Jamshidi, 2017-12-19 As technology presses forward scientific projects are becoming increasingly complex The international space station for example includes over 100 major components carried aloft during 88 spaces flights which were organized by over 16 nations The need for improved system integration

between the elements of an overall larger technological system has sparked further development of systems of systems SoS as a solution for achieving interoperability and superior coordination between heterogeneous systems Systems of Systems Engineering Principles and Applications provides engineers with a definitive reference on this newly emerging technology which is being embraced by such engineering giants as Boeing Lockheed Martin and Raytheon The book covers the complete range of fundamental SoS topics including modeling simulation architecture control communication optimization and applications Containing the contributions of pioneers at the forefront of SoS development the book also offers insight into applications in national security transportation energy and defense as well as healthcare the service industry and information technology System of systems SoS is still a relatively new concept and in time numerous problems and open ended issues must be addressed to realize its great potential This book offers a first look at this rapidly developing technology so that engineers are better equipped to face such challenges

*Handbook of Innovation Indicators and Measurement* Fred Gault, 2013-01-01 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 ke 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

The Federal Role in Terrorism Insurance Lloyd Dixon, Robert J. Lempert, Tom LaTourrette, Robert T. Reville, 2007-10-23 What are the Terrorism Risk Insurance Act's effects on the market for terrorism insurance What would be the effect of enhancing provisions for nuclear biological chemical and radiological NBCR attacks The authors conclude that the program yields positive outcomes in a number of dimensions for conventional attacks and identify specific reforms that can improve results

for NBCR attacks      Informing an Effective Response to Climate Change National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, America's Climate Choices: Panel on Informing Effective Decisions and Actions Related to Climate Change, 2011-01-07 Global climate change is one of America's most significant long term policy challenges Human activity especially the use of fossil fuels industrial processes livestock production waste disposal and land use change is affecting global average temperatures snow and ice cover sea level ocean acidity growing seasons and precipitation patterns ecosystems and human health Climate related decisions are being carried out by almost every agency of the federal government as well as many state and local government leaders and agencies businesses and individual citizens Decision makers must contend with the availability and quality of information the efficacy of proposed solutions the unanticipated consequences resulting from decisions the challenge of implementing chosen actions and must consider how to sustain the action over time and respond to new information Informing an Effective Response to Climate Change a volume in the America's Climate Choices series describes and assesses different activities products strategies and tools for informing decision makers about climate change and helping them plan and execute effective integrated responses It discusses who is making decisions on the local state and national levels who should be providing information to make decisions and how that information should be provided It covers all levels of decision making including international state and individual decision making While most existing research has focused on the physical aspect of climate change Informing an Effective Response to Climate Change employs theory and case study to describe the efforts undertaken so far and to guide the development of future decision making resources Informing an Effective Response to Climate Change offers much needed guidance to those creating public policy and assists in implementing that policy The information presented in this book will be invaluable to the research community especially social scientists studying climate change practitioners of decision making assistance including advocacy organizations non profits and government agencies and college level teachers and students      **The Geopolitics of Shale Gas** Sijbren de Jong, Willem Auping, Joris Govers, 2014-02-11 The US shale gas revolution could in the long term destabilize traditional oil and gas exporters in the European Union EU neighborhood A combination of substitution effects and greater energy efficiency could put pressure on the price of oil leading to fiscal difficulties in traditional hydrocarbon exporting countries      Israel's Strategic Agenda Efraim Inbar, 2013-09-13 Divided into two clear parts the first part of this book examines political and economic factors in the global strategic environment including the approach of US and EU foreign policies towards Israel global trends in the field of defence industries and the energy sector and their implications for the Middle East and Israel The second part focuses on Israel's strategic agenda as reflected in its military force design and doctrine the dilemmas the country has faced in the course of fighting its wars of attrition the relations between military and civil sectors in Israel the struggle against Israel on the part of non governmental organizations Israel's main security challenges and national grand strategy This book was previously published as a special issue of Israel Affairs      Climate

Uncertainty and Risk Judith Curry, 2023-06-06 World leaders have made a forceful statement that climate change is the greatest challenge facing humanity in the 21st century. However, little progress has been made in implementing policies to address climate change. In *Climate Uncertainty and Risk*, eminent climate scientist Judith Curry shows how we can break this gridlock. This book helps us rethink the climate change problem, the risks we are facing, and how we can respond to these challenges. Understanding the deep uncertainty surrounding the climate change problem helps us to better assess the risks. This book shows how uncertainty and disagreement can be part of the decision-making process. It provides a road map for formulating pragmatic solutions. *Climate Uncertainty and Risk* is essential reading for those concerned about the environment, professionals dealing with climate change, and our national leaders. Decision Making under Deep Uncertainty Vincent A. W. J. Marchau, Warren E. Walker, Pieter J. T. M. Bloemen, Steven W. Popper, 2019-04-04 This open access book focuses on both the theory and practice associated with the tools and approaches for decision-making in the face of deep uncertainty. It explores approaches and tools supporting the design of strategic plans under deep uncertainty and their testing in the real world, including barriers and enablers for their use in practice. The book broadens traditional approaches and tools to include the analysis of actors and networks related to the problem at hand. It also shows how lessons learned in the application process can be used to improve the approaches and tools used in the design process. The book offers guidance in identifying and applying appropriate approaches and tools to design plans, as well as advice on implementing these plans in the real world. For decision-makers and practitioners, the book includes realistic examples and practical guidelines that should help them understand what decision-making under deep uncertainty is and how it may be of assistance to them. *Decision Making under Deep Uncertainty: From Theory to Practice* is divided into four parts. Part I presents five approaches for designing strategic plans under deep uncertainty: Robust Decision Making, Dynamic Adaptive Planning, Dynamic Adaptive Policy Pathways, Info Gap Decision Theory, and Engineering Options Analysis. Each approach is worked out in terms of its theoretical foundations, methodological steps to follow when using the approach, latest methodological insights, and challenges for improvement. In Part II, applications of each of these approaches are presented. Based on recent case studies, the practical implications of applying each approach are discussed in depth. Part III focuses on using the approaches and tools in real-world contexts based on insights from real-world cases. Part IV contains conclusions and a synthesis of the lessons that can be drawn for designing, applying, and implementing strategic plans under deep uncertainty, as well as recommendations for future work. The publication of this book has been funded by the Radboud University, the RAND Corporation, Delft University of Technology, and Deltares. **Foresight in Action** Marjolein van Asselt, Susan van 't Klooster, Philip van Notten, Livia A. Smits, 2012-06-25 Assessing the future is vital in informing public policy decisions. One of the most widespread approaches is the development of scenarios, which are alternative hypothetical futures. Research has indicated, however, that the reality of how professionals go about employing scenarios is often starkly at

odds with the theory a finding that has important ramifications for how the resulting images of the future should be interpreted It also shows the need for rewriting and updating theory This book based on an intensive five year study of how experts actually go about assessing the future provides a groundbreaking examination of foresighting in action Obtained via ethnographic techniques the results lay bare for the first time the real processes by which scenarios are made It is also the first book to examine foresighting for public policy which is so often overlooked in favour of business practice From handling of discontinuity to historical determinism the analysis reveals and explains why foresight is difficult and what the major pitfalls are Each chapter ends with a toolkit of recommendations for practice The book aims to help readers to reflect on their own practices of public oriented foresight and thus to foster a deeper understanding of the key principles and challenges Ultimately this will lead to better informed decision making      **Land Use Scenarios** Alan W. Shearer, David A. Mouat, Scott D. Bassett, Michael W. Binford, Craig W. Johnson, Justin A. Saarinen, Alan W. Gertler, Julide Koracin, 2009-01-14 Any alteration of the natural processes occurring on a piece of land will have expected as well as unanticipated effects and those effects have little regard for arbitrary human boundaries Consequently it is not enough for land managers to consider only how they might maintain the parcels for which they are responsible they must also anticipate      Forecasting and Management of Technology Alan L. Porter, Scott W. Cunningham, Jerry Banks, A. Thomas Roper, Thomas W. Mason, Frederick A. Rossini, 2011-06-09 Published in 1991 the first edition of Forecasting and Management of Technology was one of the leading handful of books to deal with the topic of forecasting of technology and technology management as this discipline was emerging The new revised edition of this book will build on this knowledge in the context of business organizations that now place a greater emphasis on technology to stay on the cutting edge of development The scope of this edition has broadened to include management of technology content that is relevant to now to executives in organizations while updating and strengthening the technology forecasting and analysis content that the first edition is reputed for Updated by the original author team plus new author Scott Cunningham the book takes into account what the authors see as the innovations to technology management in the last 17 years the Internet the greater focus on group decision making including process management and mechanism design and desktop software that has transformed the analytical capabilities of technology managers Included in this book will be 5 case studies from various industries that show how technology management is applied in the real world      *Science Communication* Annette Leßmöllmann, Marcelo Dascal, Thomas Gloning, 2019-12-16 The volume gives a multi perspective overview of scholarly and science communication exploring its diverse functions modalities interactional structures and dynamics in a rapidly changing world In addition it provides a guide to current research approaches and traditions on communication in many disciplines including the humanities technology social and natural sciences and on forms of communication with a wide range of audiences      Computational and Decision Methods in Economics and Business Anna Maria Gil-Lafuente, Josefa Boria, Agustín Torres, José M. Merigó, Janusz

Kacprzyk,2022-01-27 This book presents different topics related to innovation complexity uncertainty modeling and simulation fuzzy logic decision making aggregation operators business and economic applications among others The chapters are the results of research presented at the International Workshop Innovation Complexity and Uncertainty in Economics and Business held in Barcelona in November 2019 by The Ibero American Network for Competitiveness Innovation and Development REDCID in Spanish and the Royal Academy of Economic and Financial Sciences RACEF in Spanish These papers are useful for junior and senior researchers in the area of economics and business

**The Technological Singularity** Victor Callaghan,James Miller,Roman Yampolskiy,Stuart Armstrong,2017-05-22 This volume contains a selection of authoritative essays exploring the central questions raised by the conjectured technological singularity In informed yet jargon free contributions written by active research scientists philosophers and sociologists it goes beyond philosophical discussion to provide a detailed account of the risks that the singularity poses to human society and perhaps most usefully the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on society The discussions provide perspectives that cover technological political and business issues The aim is to bring clarity and rigor to the debate in a way that will inform and stimulate both experts and interested general readers

**Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage, and Environmental Protection** Metaxiotis, Kostas,2009-08-31 This book analyzes the need for a holistic approach for the construction and engineering of cities and societies Provided by publisher

**Theory and Methods for Supporting High Level Military Decisionmaking** Paul K. Davis,James P. Kahan,2007 This report describes an approach to high level decision support for a Joint Forces Air Component Commander in combat operations or a Chief of Staff in defense planning Its central theme is the fundamental importance of dealing effectively with uncertainty whether in effects based operations building the Air Force s Commander s Predictive Environment or planning future forces with the methods of capabilities based planning Because many features of the future cannot be predicted with reasonable confidence it is better to proceed with the expectation of surprise developments and to have skill in recognizing adaptations and making them than it is to treat uncertainty merely as an annoyance This report sketches the framework of a high level decision support environment that is top down expresses concepts in simple and intuitive language deals explicitly with risk and uncertainty and provides the capability for decisionmakers to readily discover and question the bases for key assumptions and assessments It can accommodate both rational analytic and naturalistic decisionmakers allowing them to produce strategies that are flexible adaptive and robust FAR Two explicit methods and their related tools are described The first involves portfolio style thinking and analysis a good mechanism for balancing risks and other considerations in choosing a course of action The second is a novel modification of foresight exercises that addresses the need to include humans effectively in dealing with uncertainty A more extensive discussion of available methods and enabling technologies is also



presented along with some recommendations about investment priorities

**The Oxford Handbook of Expertise** Paul Ward, Jan Maarten Schraagen, Julie Gore, Emilie M. Roth, 2020 The Oxford Handbook of Expertise provides a comprehensive picture of the field of Expertise Studies It offers both traditional and contemporary perspectives and importantly a multidiscipline multimethod view of the science and engineering research on expertise

**Geographic Information Science** Thomas J. Cova, Harvey J. Miller, Kate Beard, Andrew U. Frank, Michael Goodchild, 2008-09-22 The GIScience conference series was founded in 2000 with the goal of providing a forum for researchers interested in advancing the fundamental aspects of the production dissemination and use of geographic information The conference is held biannually and attracts people from academia industry and government across a host of disciplines including cognitive science computer science engineering geography information science mathematics philosophy psychology social science and statistics Following a very successful conference in Münster Germany in 2006 this year's conference was held in Park City Utah USA the prior site of the 2002 Winter Olympics and home to the annual Sundance Film Festival There are two forms of submission to the conference full papers of 6000 words or less and extended abstracts of 500 1000 words for either a presentation or poster This format was originally designed to capture the cultural difference between researchers who prefer to publish a peer reviewed conference paper and those who would rather submit an abstract covering work in progress This year 77 full papers were submitted and reviewed by 3 Program Committee members of which 24 were selected for presentation and inclusion in this volume Of the 115 extended abstracts that were submitted and reviewed by 2 Program Committee members 47 were accepted for an oral presentation and 25 were accepted for presentation as a poster The abstracts were published in a second booklet and are available on the GIScience website <http://www.giscience.org>

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