# Real Options in Capital Investment

Models, Strategies, and Applications

Edited by Lenos Trigeorgis

Han T. J. Smit, Lenos Trigeorgis

Real Options and Investment Under Uncertainty Eduardo S. Schwartz, Lenos Trigeorgis, 2004 The study of investment under uncertainty was stagnant for several decades until developments in real options revitalized the field The topics covered in this book include the reasons behind the under investment programme **Real Options in Capital Investment** Lenos Trigeorgis, 1995-01-24 This compilation integrates various new contributions to the growing real options literature Recent developments in the valuation of capital investment opportunities seen as real options e g to defer expand abandon or switch have provided the tools and unlocked the possibilities to revolutionize the field of capital budgeting The resulting insights strategies and techniques enable quantifying the thus far elusive elements of managerial operating flexibility and strategic interactions These are vital to successfully capitalize on favorable future investment opportunities or limit losses from adverse market developments This book presents various models and operating strategies and a variety of applications ranging from acquisitions and divestitures to natural resource development and pollution compliance It is intended for both the academic and the professional market The book's contributions are divided into five parts covering sections on real options and alternative valuation paradigms for capital investment analysis on the analysis of general exchange or switching options and interdependencies among multiple such options on strategic acquisitions infrastructure and foreign investment options on mean reversion alternative formulations in natural resource investments shipping and start up ventures and on other applications in pollution compliance land development flexible manufacturing and financial default options Both academic and practitioner interest in these developments is unusually high The book can serve as supplementary material for the academic market e g in advanced finance courses in option pricing or capital budgeting in doctoral seminars and as a library resource It may also be of interest to the professional market e g corporate planners and finance executives in the oil pharmaceutical auto and a variety of other industries academics from related areas e g decision analysts or economists as well as to international readers academics doctoral students and professionals Real R & D Options Dean Paxson, 2003-01-17 This text addresses a wide range of issues in valuation using the Real Options technique It covers the whole area of Real Options and looks closely at developments especially in valuing technology companies Authors in Europe North and South America Asia and Africa provide seven Real Options models and applications The New Investment Theory of Real Options and its Implication for Telecommunications Economics James J. Alleman, Eli M. Noam, 2007-08-19 Randall B Lowe Piper Marbury L L R The issue of costing and pricing in the telecommunications industry has been hotly debated for the last twenty years Indeed we are still wrestling today over the cost of the local exchange for access by interexchange and competitive local ex change carriers as well as for universal service funding The U S telecommunications world was a simple one before the emergence of competition comprising only AT T and independent local exchange carriers Costs were allocated between intrastate and interstate jurisdictions and then again between intrastate local and toll The Bell

System then divided those costs among itself using a process referred to as the division of revenues and independents using a process called settlements Tolls subsidized local calls to keep the politi cians happy and the firm as a whole covered its costs and made a fair return State regulators however lacked the wherewithal to audit this process Their con cerns centered generally on whether local rates irrespective of costs were at a politically acceptable level Although federal regulators were better able to determine the reasonableness of the process and the resulting costs they adopted an approach of continuous surveillance where like the state regulator the appearance of rea sonableness was what mattered With the advent of competition this historical costing predicate had to change The Bell System as well as the independents were suddenly held **Real Options** Lenos Trigeorgis, 1996-03-14 Comprehensive in scope Real Options reviews current techniques of capital budgeting and details an approach based on the pricing of options that provides a means of quantifying the elusive elements of managerial flexibility in the face of unexpected changes in the market In the 1970s and the 1980s developments in the valuation of capital investment opportunities based on options pricing revolutionized capital budgeting Managerial flexibility to adapt and revise future decisions in order to capitalize on favorable future opportunities or to limit losses has proven vital to long term corporate success in an uncertain and changing marketplace In this book Lenos Trigeorgis who has helped shape the field of real options brings together a wealth of previously scattered knowledge and research on the new flexibility in corporate resource allocation and in the evaluation of investment alternatives brought about by the shift from static cash flow approaches to the more dynamic paradigm of real options an approach that incorporates decisions on whether to defer expand contract abandon switch use or otherwise alter a capital investment Comprehensive in scope Real Options reviews current techniques of capital budgeting and details an approach based on the pricing of options that provides a means of quantifying the elusive elements of managerial flexibility in the face of unexpected changes in the market Also discussed are the strategic value of new technology project interdependence and competitive interaction The ability to value real options has so dramatically altered the way in which corporate resources are allocated that future textbooks on capital budgeting will bear little resemblance to those of even the recent past Real Options is a pioneer in this area coupling a coherent picture of how option theory is used with practical insights in into real world applications A Stochastic Control Framework for Real Options in Strategic Evaluation Alexander Vollert, 2012-12-06 The theoretical foundation for real options goes back to the mid 1980s and the development of a model that forms the basis for many current applications of real option theory Over the last decade the theory has rapidly expanded and become enriched thanks to increasing research activity Modern real option theory may be used for the valuation of entire companies as well as for particular investment projects in the presence of uncertainty As such the theory of real options can serve as a tool for more practically oriented decision making providing management with strategies maximizing its capital market value This book is devoted to examining a new framework for classifying real options from a management and a valuation perspective

giving the advantages and disadvantages of the real option approach Impulse control theory and the theory of optimal stopping combined with methods of mathematical finance are used to construct arbitrarily complex real option models which can be solved numerically and which yield optimal capital market strategies and values Various examples are given to demonstrate the potential of this framework This work will benefit the financial community companies as well as academics in mathematical finance by providing an important extension of real option research from both a theoretical and practical point of view Strategic Investment Han T. J. Smit, Lenos Trigeorgis, 2012-01-12 Corporate finance and corporate strategy have long been seen as different sides of the same coin Though both focus on the same broad problem investment decision making the gap between the two sides and between theory and practice remains embarrassingly large This book synthesizes cutting edge developments in corporate finance and related fields in particular real options and game theory to help bridge this gap In clear straightforward exposition and through numerous examples and applications from various industries Han Smit and Lenos Trigeorgis set forth an extended valuation framework for competitive strategies The book follows a problem solving approach that synthesizes ideas from game theory real options and strategy Thinking in terms of options games can help managers address guestions such as When is it best to invest early to preempt competitive entry and when to wait Should a firm compete in R D or adopt an accommodating stance How does one value growth options or infrastructure investments The authors provide a wide range of valuation examples such as acquisition strategies R D investment in high tech sectors joint research ventures product introductions in consumer electronics infrastructure and oil exploration investment Representing a major step beyond standard real options or strategy analysis and extending the power of real options and strategic thinking in a rigorous fashion Strategic Investment will be an indispensable guide and resource for corporate managers MBA students and academics alike Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism, and Travel Industry Vasant, Pandian, M., Kalaivanthan, 2016-10-31 The application of holistic optimization methods in the tourism travel and hospitality industry has improved customer service and business strategies within the field By utilizing new technologies and optimization techniques it is becoming easier to troubleshoot problematic areas within the travel industry The Handbook of Research on Holistic Optimization Techniques in the Hospitality Tourism and Travel Industry features innovative technologies being utilized in the management of hotels and tourist attractions Highlighting empirical research on the optimization of the travel and hospitality industry through the use of algorithms and information technology this book is a critical reference source for managers decision makers executives tourists agents researchers economists and hotel staff members Research in Personnel and Human Resources Management M. Ronald Buckley, Anthony R. Wheeler, John E. Baur, Jonathon R. B. Halbesleben, 2024-09-26 This volume offers several original scholarly contributions written by thought leaders in the field of human resources management **Nonlinear Dynamics in** Economics, Finance and the Social Sciences Gian Italo Bischi, Carl Chiarella, Laura Gardini, 2009-12-15 Over the last two

decades there has been a great deal of research into nonlinear dynamic models in economics finance and the social sciences This book contains twenty papers that range over very recent applications in these areas Topics covered include structural change and economic growth disequilibrium dynamics and economic policy as well as models with boundedly rational agents The book illustrates some of the most recent research tools in this area and will be of interest to economists working in economic dynamics and to mathematicians interested in seeing ideas from nonlinear dynamics and complexity theory applied Building A Responsive And Flexible Supply Chain Yoshiteru Minagawa, 2018-08-15 This to the economic sciences book identifies accounting based management control system practices for managing integrated and flexible supply chains and increasing customer satisfaction It further explores how a company can enhance its supply chain integration The book considers the effects of allocating supply chain s joint profit and incentive alignment as managerial instruments to facilitate integration and cooperation among partners Furthermore the book examines how to flexibly manage integrated supply chains from the perspectives of the product service lifecycle partner switching and strategic flexibility. It also examines the use of management accounting systems to improve customer satisfaction in supply chains Management accounting practices examined in the book involve balanced scorecard switching cost target costing value based pricing target pricing and quality costing The book also investigates the different types of supply chains fabless supply chains an inter firm network comprising of parts suppliers and assemblers non profit supply chains Family Firms and Private Equity Oliver Ahlers, 2014-07-25 Family firms are of particular importance for many economies We know little about family firm buyouts and how they are different from non family firm buyouts Oliver Ahlers investigates this under researched topic After a comprehensive literature review on family firm buyouts the focus of his book is on the key steps of the investment process such as family firm valuation and negotiations between PE investors and family sellers Additionally it is investigated how soft factors such as trust reputation or commitment could play an important role when PE and family firms interact Throughout the book differences between family and non family firm buyouts are highlighted The Handbook of Maritime Economics and Business Costas Grammenos, 2013-07-04 This book is the founding title in the Grammenos Library The diversity of the subjects covered is unique and the results of research developed over many years are not only comprehensive but also have important implications on real life issues in maritime business The new edition covers a vast number of topics including Shipping Economics and Maritime Nexus International Seaborne Trade Economics of Shipping Market and Shipping Cycles Economics of Shipping Sectors Issues in Liner Shipping Economics of Maritime Safety and Seafaring Labour Market National and International Shipping Policies Aspects of Shipping Management and Operations Shipping Investment and Finance Port Economics and Management Aspects of International Logistics Japanese Management Accounting Today Masanobu Kosuga, Yasuhiro Monden, Shufuku Hiraoka, Yoshiyuki Nagasaka, Noriko Hoshi, 2007-09-06 This book investigates how different types of Japanese management systems are able to motivate stakeholders including employees top management

stockholders customers and transaction partners to participate actively in the organizational behavior that improves business performance The various systems motivating stakeholders are examined in five sections Strategy and Business Restructuring for Enhancing the Business Value Management Control Systems and Budgeting Cost Management Management Accounting for Supply Chain and Shared Services and Process Management Derivatives and Risk Management, Models for Supply Chain Management Sridhar Tayur, Ram Ganeshan, Michael Magazine, 2012-12-06 Quantitative models and computer based tools are essential for making decisions in today s business environment These tools are of particular importance in the rapidly growing area of supply chain management This volume is a unified effort to provide a systematic summary of the large variety of new issues being considered the new set of models being developed the new techniques for analysis and the computational methods that have become available recently The volume s objective is to provide a self contained sophisticated research summary a snapshot at this point of time in the area of Quantitative Models for Supply Chain Management While there are some multi disciplinary aspects of supply chain management not covered here the Editors and their contributors have captured many important developments in this rapidly expanding field The 26 chapters can be divided into six categories Basic Concepts and Technical Material Chapters 1 6 The chapters in this category focus on introducing basic concepts providing mathematical background and validating algorithmic tools to solve operational problems in supply chains Supply Contracts Chapters 7 10 In this category the primary focus is on design and evaluation of supply contracts between independent agents in the supply chain Value of Information Chapters 11 13 The chapters in this category explicitly model the effect of information on decision making and on supply chain performance Managing Product Variety Chapters 16 19 The chapters in this category analyze the effects of product variety and the different strategies to manage it International Operations Chapters 20 22 The three chapters in this category provide an overview of research in the emerging area of International Operations Conceptual Issues and New Challenges Chapters 23 27 These chapters outline a variety of frameworks that can be explored and used in future research efforts This volume can serve as a graduate text as a reference for researchers and as a guide for further development of this field Valuation Rajesh Kumar, 2015-11-05 Valuation Theories and Concepts provides an understanding on how to value companies that employ non standard accounting procedures particularly companies in emerging markets and those that require a wider variety of options than standard texts provide The book offers a broader more holistic perspective that is perfectly suited to companies and worldwide markets By emphasizing cases on valuation including mergers and acquisition valuation it responds to the growing expectation that students and professionals must generate comprehensive perspectives based on thorough investigations and a library of valuation theories Readers will gain a better understanding of the development of complete analyses including trend analysis of financial parameters ratio analysis and differing perspectives on valuation and strategic initiatives Case studies include stock market performance and synergies and the intrinsic value of the firm are compared with offer price In addition full data

sets for each chapter are available online Provides an understanding on how to value companies that employ non standard accounting procedures particularly companies in emerging markets Gives readers the ability to compare the intrinsic value of the firm with the offer price Showcases a variety of valuation techniques and provides details about handling each part of the valuation process Each case has data in excel spreadsheets for all companies and data sets for each chapter are available **Instruments for Climate Policy** Johan Albrecht, 2002-01-01 This book will be invaluable both to researchers wanting to understand latest developments in theory and practice and to those in the policy process wishing to design and implement climate change policies using the flexibility mechanisms Frank Convery University College Dublin Ireland The Kyoto Protocol introduced international flexible mechanisms into climate policy and since then the design and most effective use of flexible instruments have become key areas for climate policy research Instruments for Climate Policy focuses on economic and political aspects related to the recent proposals and the debate on limits in flexibility and discusses EU and US perspectives on climate policy instruments and strategies On the Methodology of Financial Economics Kavous Ardalan, 2023-06-01 Utilizing a multi paradigmatic approach in considering the scientific methodology of mainstream financial economics and suggesting improvements this book identifies eleven biases of the scientific methodology of mainstream financial economics namely intellectual bias local bias fad bias ideological bias automaticity bias confirmation bias cultural bias stereotyping bias under productivity bias homogeneity bias and isolation bias *Value in Due Diligence* Ronald Gleich, Gordana Kierans, 2017-11-22 The recent financial crisis has thrown many of the mergers and acquisitions of recent years into sharp focus Too many have failed to generate real value for shareholders and many others have only proved lukewarm successes Although it is impossible to assess accurately the extent to which these failures may be the result of poor planning and execution they have raised considerable questions about the process breadth and effectiveness of traditional due diligence activities Value in Due Diligence explores new applications for due diligence including areas such as corporate culture social responsibility and innovation It also examines the due diligence process itself to draw out those elements that provide effective risk and opportunity management as opposed to simple compliance

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