Real Options and Investment Under Uncertainty Classical Readings and Recent Contributions

edited by

Eduardo S. Schwartz and Lenos Trigeorgis

Real Options And Investment Unde

Eduardo S. Schwartz, Lenos Trigeorgis

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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 Mergers & Acquisitions - a Real Option valuation approach of investment decision under uncertainty Marc Zajicek, 2004-01-06 Inhaltsangabe Abstract The objective of this dissertation is to examine the application of Real Options for the evaluation of companies with regard to acquisitions There has been an intensive scientific discussion in the past years about the Real Options method for the evaluation of investments and mergers acquisitions as in practice usually the management tries to capture future developments with static methods of capital budgeting For example future cash flows are discounted with a fixed risk adjusted discount rate Therefore the Real Options approach has been applied very rarely as it has the reputation of high complexity and poor practicability in daily business However the use of present values and capitalized values may produce pitfalls in acquisition decisions as strategic investment decisions might be characterized by a wide range of possibilities to react flexibly to a fast changing environment In chapter 1 the term Mergers Acquisitions M A is defined and the motives as well as the relevance of M A transactions for different branches are described in detail Furthermore the process and the different phases of a merger or an acquisition are explained Chapter 2 presents traditional evaluation methods of static net present value sensitivity analysis Monte Carlo and decision tree These classic methods are discussed and a comparison is drawn among these techniques in regard to practicability At the end of this chapter a evaluation is presented in regard to specific situations with the mayor parameter of uncertainty and flexibility for the application of these classic methods The basic concept of option pricing is described in chapter 3 In addition the Black Scholes equation and the underlying assumptions are explained in detail in order to understand financial options which are the basic for the Real Options approach At the end of the chapter an example of a call and put option is discussed in order to understand the functioning of options Chapter 4 presents an introduction and definition of the Real Options method Furthermore the value drivers and the value creation due to the application of Real Options are discussed and analyzed in detail After the discussion of the functioning of Real Options a comparison of the analogy between financial Options and Real Options is done in order to possible differences In this context the limitations of the analogy of financial and Real Options are presented Finally

Evaluating real options as a means for investment appraisal under uncertainty and its degree of utilisation by companies Andreas Würfel,2003-10-13 Inhaltsangabe Abstract This paper evaluates the real options approach ROA as a means for appraising capital investments under uncertainty Globalisation and growing competitiveness have led to an increase in uncertainty with regard to companies decision making Flexibility to react to this uncertainty has become more important The question arises whether there is a need for a further investment appraisal technique or whether traditional techniques can

cope with that A growing literature about real options shows that traditional investment appraisal techniques do not value flexibility That is why ROA has become more important within recent years However the degree of its utilisation by companies seems to be rather low Three possible reasons for that are examined ROA is not well known by companies especially small and medium sized enterprises ROA is only limitedly applicable ROA is too difficult to use After traditional investment appraisal techniques have been outlined the real options approach is illustrated by means of a case study The possible range of application is assessed by reviewing the literature A survey was conducted to check whether companies know about or apply that technique and to identify the tools used by companies This study shows that while the range of possible applications of real options is rather vast ROA is rarely known by German and British companies and barely applied One reason might be that most books and articles are of rather academic nature This seems to have been realised since books with a focus on practical application have been published recently The complexity of ROA seems to be a further reason for its low degree of utilisation Companies tend to use simpler but more comprehensible techniques although these methods have some major drawbacks However business science should not end in itself but serve businesses Therefore further emphasis has to be put on making real options approachable for practitioners Inhaltsverzeichnis Table of Contents I Abstract2 II Acknowledgements3 III Table of Contents4 IV List of Figures7 V List of Abbreviations8 1 Introduction9 2 Characteristics of Investment Decisions11 2 1What Is a Capital Investment 11 2 2Risk and Uncertainty12 3 Tools for Investment Appraisals15 3 1Static Methods15 3 2Discounted Cash Flow Approaches Dynamic 17 3 3Approaches Which Try to Deal With Risk20 4 The Real Options Approach24 4 1Why Use Real Options to 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 accountable

Real Options Theory Jeffrey J. Reuer, Tony W. Tong, 2007-07-05 Examines the ways in which real options theory can contribute to strategic management This volume offers conceptual pieces that trace out pathways for the theory to move forward and presents research on the implications of real options for strategic investment organization and firm performance

Real Options, Ambiguity, Risk and Insurance A. Bensoussan, S. Peng, J. Sung, 2013-05-02 Financial engineering has become the focus of widespread media attention as a result of the worldwide financial crisis of recent years This book is the second in a series dealing with financial engineering from Ajou University in Korea The main objective of the series is to disseminate recent developments and important issues in financial engineering to graduate students and researchers and to provide surveys or pedagogical exposition of important published papers in a broad perspective as well as analyses of important financial news concerning financial engineering research practices or regulations Real Options Ambiguity Risk and Insurance comprises 12 chapters and is divided into three parts In Part I five chapters deal with real options analysis which addresses the issue of investment decisions in complex innovative or risky projects Part II presents three chapters on ambiguity The notion of ambiguity is one of the major breakthroughs in the expected utility theory ambiguity arises as uncertainties cannot be precisely described in the probability space Part III consists of four chapters devoted to risk and insurance and covers mutual insurance for non traded risks downside risk management and credit risk in fixed income markets This volume will be useful to both graduate students and researchers in understanding relatively new areas in economics and finance as well as challenging aspects of mathematics *Real Options in Practice* Marion A. Brach, 2003-04-07 Explores real option theory applied in practice Real options are quickly becoming the valuation and decision making method of choice for many companies including oil and gas companies utilities and natural resource companies pharmaceutical and biotech companies Internet companies and many others Real Options in Practice allows readers to view the world of real options from the vantage point of a corporate practitioner applying real option valuation techniques on a regular basis Expert Marion Brach describes the challenges of implementing a real option framework in practice within a corporate setting Touching on the real options most firms care about Real Options in Practice identifies the classic types of real options deferral abandonment switching expansion and compound and explores the main concepts critical to understanding real option theory Through Brach's own three step real option valuation method readers will learn how the theory of real options is now being applied to drive better more profitable corporate decision making Marion A Brach MD MBA Hagen Germany has undertaken financial valuation of business opportunities and acquisitions using scenario and real option valuation in the biotech industry A recognized expert on real option theory and practice Brach received her MBA from the Manchester Business School and frequently speaks at real option seminars A Real Options Approach to Renewable and Nuclear Energy Investments in the Philippine Casper Boongaling Agaton, 2019-07-10 This book presents the application of real options approach ROA to analyze investment decisions for switching energy sources from fossil fuels to

alternative energy Using the Philippines as a case the ROA models presented here explore how uncertainties including fossil fuel prices electricity prices discount rates externality renewable energy RE costs and RE investment growth affect investment decisions that focus on developing countries particularly to fossil importing countries The book is a collection of academic papers published in peer reviewed journals The first paper analyzes investments in various RE sources including wind solar hydropower and geothermal over using coal The second paper compares investments between RE and nuclear energy considering the risk of nuclear accident The third paper applies the proposed ROA model with the case of Palawan island and analyzes investment in RE over diesel fuel for electricity generation. The fourth paper focuses on investment drivers that make RE sources as a better option than using fossil fuels Real Options and Strategic Technology Venturing Caroline M. Sipp, Carayannis Elias G., 2012-11-19 This book seeks to answer why when and how are real options used in strategic technology venturing This work tests for the role of real options in decision making involving three types of firms in decreasing order of technology dependence technology driven TD where the profit is fully dependent on new technology creation and leveraging technology based TB where the profit is enabled and supported by technology and technology neutral TN where the profit is almost independent of technology It also deals with strategic and non strategic types of decisions driven by real options This analysis shows that an environment presenting co opetitive simultaneous competition and collaboration conditions triggers the use of real options why that serve to transform the position posture and propensity of businesses to innovate and thus they co evolve when into more effective and efficient forms of businesses co specialization how The authors demonstrate that embracing risk and uncertainty can increase levels and probability of new venture formation However their simulation also shows that it should be adapted to the risk profile of the firm and that timing is also a factor to be considered Although engaging the concepts of real options this analysis does not focus on a specific investment valuation methodology but highlights the relationship between knowledge and risk and rather addresses the management of mindsets as moving towards a systematic conceptualization of real options represents a different paradigm in decision Real R & D Options Dean Paxson, 2003-01-17 This text addresses a wide range of issues in valuation using the making 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 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 Introduction to Civil Engineering Systems Samuel Labi, 2014-03-25 This book presents an integrated systems approach to the evaluation analysis design and maintenance of civil engineering systems Addressing recent concerns about the world's aging civil infrastructure and its environmental impact the author makes the case for why any civil infrastructure should be seen as part of a larger whole He walks readers through all phases of a civil project from feasibility assessment to construction to operations explaining how to evaluate tasks and challenges at each phase using a holistic approach Unique coverage of ethics legal issues and management is also included Real Option Analysis and Climate Change Benoit Morel, 2019-06-12 This book sets out to reframe the theory of real options so that it can be used to support environmental investments for climate change adaptation and mitigation Climate change policy often involves making decisions that concern extended time periods and doing so under considerable uncertainty By expanding and broadening the framework of real options this book first introduces readers to new ways of quantifying investment decisions that can much more effectively address the shape and size of the uncertainty than traditional approaches using Net Present Value In turn the second part of the book applies this new theoretical framework to climate change policy by presenting a number of examples and by providing a general perspective on investment decisions related to climate change and how to prioritize Intelligent Systems in Oil Field Development under Uncertainty Marco A. C. Pacheco, Marley M. B. R. them Vellasco, 2009-01-30 The decision to invest in oil field development is an extremely complex problem even in the absence of uncertainty due to the great number of technological alternatives that may be used to the dynamic complexity of oil reservoirs which involves mul phase flows oil gas and water in porous media with phase change and to the c plicated combinatorial optimization problem of choosing the optimal oil well network that is choosing the number and types of wells horizontal vertical directional m tilateral required for draining oil from a field with a view to maximizing its economic value This problem becomes even more difficult when technical uncertainty and e nomic uncertainty are considered The former are uncertainties regarding the existence volume and quality of a reservoir and may encourage an investment in information before the field is developed in order to reduce these uncertainties and thus optimize the heavy investments required for developing the reservoir The economic or market uncertainties are associated with the general movements of the economy such as oil prices gas demand exchange rates etc and may lead decision makers to defer vestments and wait for better

market conditions Choosing the optimal investment moment under uncertainty is a complex problem which traditionally involves dynamic programming tools and other techniques that are used by the real options theory 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 **Real Options and Intellectual Property** Philipp N. Baecker, 2007-08-06 This book proposes an integrated approach to patent risk and capital budgeting in pharmaceutical research and development R and D developing an option based view OBV of imperfect patent protection which draws upon contingent claims analysis stochastic game theory as well as novel numerical methods. The text re initiates a discussion about the contribution of quantitative frameworks to value based R and D management **Investment under** Uncertainty, Coalition Spillovers and Market Evolution in a Game Theoretic Perspective J.H.H Thijssen, 2006-04-11 Two crucial aspects of economic reality are uncertainty and dynamics In this book new models and techniques are developed to analyse economic dynamics in an uncertain environment In the first part investment decisions of firms are analysed in a framework where imperfect information regarding the investment s profitability is obtained randomly over time In the second part a new class of cooperative games spillover games is developed and applied to a particular investment problem under uncertainty mergers In the third part the effect of bounded rationality on market evolution is analysed for oligopolistic competition and incomplete financial markets Real Options Analysis Johnathan Mun, 2012-07-02 Mun demystifies real options analysis and delivers a powerful pragmatic guide for decision makers and practitioners alike Finally there is a book

that equips professionals to easily recognize value and seize real options in the world around them Jim Schreckengast Senior VP R the methods used in solving real options why and when they are used and the applicability of these methods in decision Intelligent and Fuzzy Systems Cengiz Kahraman, Sezi Cevik Onar, Selcuk Cebi, Basar Oztaysi, A. Cagrı Tolga, Irem Ucal Sari, 2024-08-27 This book presents recent research in intelligent and fuzzy techniques on Intelligent Industrial Informatics and Efficient Networks This cutting edge field integrates advanced technologies such as artificial intelligence machine learning and data analytics into industrial processes revolutionizing the way industries operate The book presents the examples of the implementation of smart sensors and IoT devices which facilitate real time data collection and communication High speed low latency networks ensure that information flows effortlessly between devices enabling timely responses and enabling the coordination of complex manufacturing processes. This network architecture supports the integration of edge computing where data processing occurs closer to the source reducing latency and enabling faster decision making The readers can benefit from this book for maintaining a leadership position among competitors in both manufacturing and service companies The intended readers are intelligent and fuzzy systems researchers lecturers M Sc and Ph D students studying intelligent and fuzzy techniques The book covers fuzzy logic theory and applications heuristics and metaheuristics from optimization to machine learning from quality management to risk management making the book an **Portfolios of Real Options** Rainer Brosch, 2008-03-29 Valuing portfolios of options excellent source for researchers embedded in investment decisions is arguably one of the most important and challenging problems in real options and corporate nance in general Although the problem is common and vitally important in the value creation process of almost any corporation it has not yet been satisfactorily addressed It is key for any corporation facing strategic resource allocation decisions be it a pharmaceutical rm valuing and managing its pipeline of drugs a telecom company having to select a set of technological alternatives a venture capital or private equity rm investing in a portfolio of ventures or any company allocating resources Portfolios of real options typically interact such that the value of the whole differs from the sum of the separate parts Thus one must address and value the particular con guration of options embedded in a speci c situation taking into account the con guration of other options already present in the portfolio which in turn depends on the correlation struc ture among the various underlying assets and the strategic dependencies among the options themselves e.g. mutual exclusivity strategic additivity compoundness complementarity etc. In that sense optimal decisions also depend on past option exercise decisions by management and organi zational capabilities put in place in the past

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