

# SENSITIVITY ANALYSIS TEMPLATE

## DISCOUNTING CASH FLOW

### Assumptions

Discount rate - WACC  
Long term CF growth rate

10.5%

1.5%

### Discounted Cash Flows

	2024	2025	2026	2027	2028
EBIT	1,938	1,589	1,655	2,019	2,372
Tax	(286)	(232)	(241)	(295)	(346)
Non-cash items added back	317	549	692	514	52
Net Working capital adjustments	(1,193)	(169)	(215)	(240)	(272)
CAPEX adjustments	(750)	(1,050)	(450)	(150)	(150)
Free Cash Flow	27	687	1,440	1,849	2,132
Discount factor	1.105	1.222	1.350	1.492	1.64
DCF	24	563	1,067	1,239	1,292

Spread value of this assumptions from 4.52% to 16.52% e.g.

## EQUITY VALUE

### Valuation

At valuation date

Cumulated DCF	4,585
Terminal Value	14,533
Discounted Terminal Value	8,812
DCF value of operations	12,997
Non-operating assets adjustments	1,379
Enterprise value	14,376
Interest bearing debt	(700)
Debt equivalents	(165)
Hybrid claims and non-controlling interests	(324)
Equity value	13,286

Spread value of this assumptions from 0.00% to 3.50% e.g.

This value will vary due do assumption changes

Input tested value in this cell

## SENSITIVITY ANALYSIS

### Long term CF growth rate

	0.00%	0.50%	1.00%	1.50%	2.00%	2.50%	3.00%	3.50%
4.52%	35,723	39,653	44,698	51,411	60,784	74,787	97,978	143,830
5.52%	27,809	30,175	33,065	36,672	41,303	47,465	56,068	68,921
6.52%	22,462	23,997	25,810	27,984	30,638	33,951	38,205	43,866
7.52%	18,644	19,693	20,904	22,315	23,981	25,980	28,420	31,466
8.52%	15,805	16,551	17,396	18,362	19,475	20,774	22,307	24,146
9.52%	13,530	14,130	14,780	15,473	16,211	17,000	17,846	18,753
10.52%	11,918	12,328	12,782	13,286	13,849	14,482	15,199	16,018
11.52%	10,347	10,661	11,009	11,394	11,800	12,231	12,689	13,189
12.52%	9,430	9,674	9,940	10,230	10,548	10,897	11,283	11,711
13.52%	8,506	8,699	8,907	9,133	9,379	9,646	9,940	10,262
14.52%	7,732	7,886	8,052	8,231	8,423	8,632	8,859	9,106
15.52%	7,077	7,202	7,335	7,478	7,631	7,796	7,974	8,168
16.52%	6,518	6,619	6,728	6,843	6,966	7,098	7,240	7,393

Apply TABLE excel function to get all values in the table

=TABLE(C12,C13)



# Sensitivity Analysis

**John Wainwright, Mark Mulligan**



## **Sensitivity Analysis:**

Sensitivity Analysis in Practice Andrea Saltelli, Stefano Tarantola, Francesca Campolongo, Marco Ratto, 2004-07-16  
Sensitivity analysis should be considered a pre requisite for statistical model building in any scientific discipline where modelling takes place For a non expert choosing the method of analysis for their model is complex and depends on a number of factors This book guides the non expert through their problem in order to enable them to choose and apply the most appropriate method It offers a review of the state of the art in sensitivity analysis and is suitable for a wide range of practitioners It is focussed on the use of SIMLAB a widely distributed freely available sensitivity analysis software package developed by the authors for solving problems in sensitivity analysis of statistical models Other key features Provides an accessible overview of the current most widely used methods for sensitivity analysis Opens with a detailed worked example to explain the motivation behind the book Includes a range of examples to help illustrate the concepts discussed Focuses on implementation of the methods in the software SIMLAB a freely available sensitivity analysis software package developed by the authors Contains a large number of references to sources for further reading Authored by the leading authorities on sensitivity analysis

Sensitivity Analysis Emanuele Borgonovo, 2017-04-19 This book is an expository introduction to the methodology of sensitivity analysis of model output It is primarily intended for investigators students and researchers that are familiar with mathematical models but are less familiar with the techniques for performing their sensitivity analysis A variety of sensitivity methods have been developed over the years This monograph helps the analyst in her his first exploration of this world The main goal is to foster the recognition of the crucial role of sensitivity analysis methods as the techniques that allow us to gain insights from quantitative models Also exercising rigor in performing sensitivity analysis becomes increasingly relevant both to decision makers and modelers The book helps the analyst in structuring her his sensitivity analysis quest properly so as to obtain the correct answer to the corresponding managerial question The first part of the book covers Deterministic Methods including Tornado Diagrams One Way Sensitivity Analysis Differentiation Based Methods and Local Sensitivity Analysis with Constraints The second part looks at Probabilistic Methods including Regression Based methods Variance Based Methods and Distribution Based methods The final section looks at Applications including capital budgeting sensitivity analysis in climate change modelling and in the risk assessment of a lunar space mission

**Global Sensitivity Analysis** Andrea Saltelli, Marco Ratto, Terry Andres, Francesca Campolongo, Jessica Cariboni, Debora Gatelli, Michaela Saisana, Stefano Tarantola, 2008-02-28 Complex mathematical and computational models are used in all areas of society and technology and yet model based science is increasingly contested or refuted especially when models are applied to controversial themes in domains such as health the environment or the economy More stringent standards of proofs are demanded from model based numbers especially when these numbers represent potential financial losses threats to human health or the state of the environment Quantitative sensitivity analysis is generally agreed to be one such standard

Mathematical models are good at mapping assumptions into inferences A modeller makes assumptions about laws pertaining to the system about its status and a plethora of other often arcane system variables and internal model settings To what extent can we rely on the model based inference when most of these assumptions are fraught with uncertainties Global Sensitivity Analysis offers an accessible treatment of such problems via quantitative sensitivity analysis beginning with the first principles and guiding the reader through the full range of recommended practices with a rich set of solved exercises The text explains the motivation for sensitivity analysis reviews the required statistical concepts and provides a guide to potential applications The book Provides a self contained treatment of the subject allowing readers to learn and practice global sensitivity analysis without further materials Presents ways to frame the analysis interpret its results and avoid potential pitfalls Features numerous exercises and solved problems to help illustrate the applications Is authored by leading sensitivity analysis practitioners combining a range of disciplinary backgrounds Postgraduate students and practitioners in a wide range of subjects including statistics mathematics engineering physics chemistry environmental sciences biology toxicology actuarial sciences and econometrics will find much of use here This book will prove equally valuable to engineers working on risk analysis and to financial analysts concerned with pricing and hedging

**Sensitivity Analysis** Andrea Saltelli, K. Chan, E. M. Scott, 2000-10-03 Sensitivity analysis is used to ascertain how a given model output depends upon the input parameters This is an important method for checking the quality of a given model as well as a powerful tool for checking the robustness and reliability of its analysis The topic is acknowledged as essential for good modelling practice and is an implicit part of any modelling field Offers an accessible introduction to sensitivity analysis Covers all the latest research Illustrates concepts with numerous examples applications and case studies Includes contributions from the leading researchers active in developing strategies for sensitivity analysis The principles of sensitivity analysis are carefully described and suitable methods for approaching many types of problems are given The book introduces the modeller to the entire causal assessment chain from data to predictions whilst explaining the impact of source uncertainties and framing assumptions A hitch hiker's guide is included to allow the more experienced reader to readily access specific applications Modellers from a wide range of disciplines including biostatistics economics environmental impact assessment chemistry and engineering will benefit greatly from the numerous examples and applications

**Sensitivity Analysis in Linear Regression** Samprit Chatterjee, Ali S. Hadi, 2009-09-25 Treats linear regression diagnostics as a tool for application of linear regression models to real life data Presentation makes extensive use of examples to illustrate theory Assesses the effect of measurement errors on the estimated coefficients which is not accounted for in a standard least squares estimate but is important where regression coefficients are used to apportion effects due to different variables Also assesses qualitatively and numerically the robustness of the regression fit

**Investment Appraisal** Uwe Götze, Deryl Northcott, Peter Schuster, 2007-12-22 This book presents a range of investment appraisal methods and models to help readers make good

investment decisions Each approach is thoroughly described evaluated and illustrated using examples with its assumptions and limitations analyzed in terms of their implications for investment decision making practice Getting investment decisions right is crucial but due to a complex and dynamic business environment this remains a challenging management task

Basics and Trends in Sensitivity Analysis: Theory and Practice in R Sébastien Da Veiga,Fabrice Gamboa,Bertrand Iooss,Clémentine Prieur,2021-10-14 This book provides an overview of global sensitivity analysis methods and algorithms including their theoretical basis and mathematical properties The authors use a practical point of view and real case studies as well as numerous examples and applications of the different approaches are illustrated throughout using R code to explain their usage and usefulness in practice Basics and Trends in Sensitivity Analysis Theory and Practice in R covers a lot of material including theoretical aspects of Sobol indices as well as sampling based formulas spectral methods and metamodel based approaches for estimation purposes screening techniques devoted to identifying influential and noninfluential inputs variance based measures when model inputs are statistically dependent and several other approaches that go beyond variance based sensitivity measures and a case study in R related to a COVID 19 epidemic model where the full workflow of sensitivity analysis combining several techniques is presented This book is intended for engineers researchers and undergraduate students who use complex numerical models and have an interest in sensitivity analysis techniques and is appropriate for anyone with a solid mathematical background in basic statistical and probability theories who develops and uses numerical models in all scientific and engineering domains

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author Kim Heldman Searchable and printable PDF of the entire book Now you can study anywhere any time and approach the exam with confidence      Sensitivity Analysis Andrea Saltelli, Karen Chan, E. Marian Scott, 2000      **Exposure**

**Assessment of Microbiological Hazards in Food** World Health Organization, 2008 The guidelines aim to provide a practical framework and approach for undertaking exposure assessment of microbiological hazards bacteria fungi viruses protozoa and microbial toxins in foods in the context of a risk assessment or as a stand alone process      **Introduction to**

**System Dynamics** Rohit Sabharwal, 2025-02-20 Introduction to System Dynamics is an insightful guide to understanding complex systems such as businesses and ecosystems We explore how these systems function focusing on feedback loops time delays and non linear relationships We provide a systematic approach to analyzing these intricate systems using causal loop diagrams and stock and flow diagrams helping readers visualize the interactions between different system components Written clearly and supported by real world examples this book is valuable for both beginners and experienced professionals We emphasize the importance of considering the entire system rather than just individual parts to find better solutions to problems System dynamics is applicable in various areas including business government and healthcare By understanding these complex systems we can make informed decisions about critical issues Introduction to System Dynamics remains a classic resource equipping readers with the tools they need to understand and manage the complex world around them

Sensitivity Analysis in Multi-objective Decision Making David Rios Insua, 2013-06-29 The axiomatic foundations of the Bayesian approach to decision making assume precision in the decision maker's judgements In practice decision makers often provide only partial and/or doubtful information We unify and expand results to deal with those cases introducing a general framework for sensitivity analysis in multi objective decision making We study first decision making problems under partial information We provide axioms leading to modelling preferences by families of value functions in problems under certainty and modelling beliefs by families of probability distributions and preferences by families of utility functions in problems under uncertainty Both problems are treated in parallel with the same parametric model Alternatives are ordered in a Pareto sense the solution of the problem being the set of non dominated alternatives Potentially optimal solutions also seem acceptable from an intuitive point of view and due to their relation with the nondominated ones Algorithms are provided to compute these solutions in general problems and in cases typical in practice linear and bilinear problems Other solution concepts are criticised on the grounds of being ad hoc In summary we have a more robust theory of decision making based on a weaker set of axioms but embodying coherence since it essentially implies carrying out a family of coherent decision analyses      Sensitivity & Uncertainty Analysis, Volume 1 Dan G. Cacuci, 2003-05-28 As computer assisted modeling and analysis of physical processes have continued to grow and diversify sensitivity and uncertainty analyses have become indispensable investigative scientific tools in their own right While most techniques used for these analyses are well documented there has yet to appear a systematic treatment of the method based      **Optimization of Large Structural**

**Systems** George I. N. Rozvany, 2013-11-21 G I N Rozvany ASI Director Professor of Structural Design FB 10 Essen University Essen Germany Structural optimization deals with the optimal design of all systems that consist at least partially of solids and are subject to stresses and deformations This integrated discipline plays an increasingly important role in all branches of technology including aerospace structural mechanical civil and chemical engineering as well as energy generation and building technology In fact the design of most man made objects ranging from space ships and long span bridges to tennis rackets and artificial organs can be improved considerably if human intuition is enhanced by means of computer aided systematic decisions In analysing highly complex structural systems in practice discretization is unavoidable because closed form analytical solutions are only available for relatively simple idealized problems To keep discretization errors to a minimum it is desirable to use a relatively large number of elements Modern computer technology enables us to analyse systems with many thousand degrees of freedom In the optimization of structural systems however most currently available methods are restricted to at most a few hundred variables or a few hundred active constraints

**Publications** United States. National Bureau of Standards, 1981

**Environmental Modelling** John Wainwright, Mark Mulligan, 2005-04-08 Simulation models are increasingly used to investigate processes and solve practical problems in a wide variety of disciplines eg climatology ecology hydrology geomorphology engineering Environmental Modelling A Practical Approach addresses the development testing and application of such models which apply across traditional boundaries and demonstrate how interactions across these boundaries can be beneficial Provides a general overview of methods and approaches as well as focusing on key subject areas written by leading practitioners in the field Assesses the advantages and disadvantages of different models used and provides case studies supported with data output tutorial exercises and links to the model and or model applications via the book's website Covers major developments in the field eg the use of GIS and remote sensing techniques and scaling issues As associated website contains colour images as well as links to www resources

**Risk Appraisal and Venture Capital in High Technology New Ventures** Gavin C. Reid, Julia A. Smith, 2007-09-06 Appealing to both mainstream and evolutionary economists this book written by an author with an excellent track record is a crossover treatment of quantitative and qualitative risk analysis within the setting of new high technology ventures

*From Natural to Artificial Neural Computation* Jose Mira, Francisco Sandoval, 1995-05-24 This volume presents the proceedings of the International Workshop on Artificial Neural Networks IWANN 95 held in Torremolinos near Malaga Spain in June 1995 The book contains 143 revised papers selected from a wealth of submissions and five invited contributions it covers all current aspects of neural computation and presents the state of the art of ANN research and applications The papers are organized in sections on neuroscience computational models of neurons and neural nets organization principles learning cognitive science and AI neurosimulators implementation neural networks for perception and neural networks for communication and control

**Publications of the National Institute of Standards and Technology ... Catalog** National Institute of

Standards and Technology (U.S.),1981      Tools for Decision Making David N. Ammons,Dale J. Roenigk,2021-09-08 This book guides readers to the mastery of a wide array of practical analytic techniques useful to local governments Written in an easy to read style with an emphasis on providing practical assistance to students local government practitioners and others interested in local government performance this updated third edition features analytic methods selected for their relevance to everyday problems encountered in city and county governments The authors outline a variety of practical techniques including the simplest that the fields of management public administration policy analysis and industrial engineering have to offer Each analytic technique is introduced in the context of a fictitious case presented over a few pages at the beginning of that technique s chapter Contents include demand analysis work distribution analysis process flow charting inflation adjustments annualizing capital costs staffing analysis identifying full costs of a program or service present value analysis life cycle costing lease buy analysis cost effectiveness analysis benchmarking analysis and more This updated third edition features a dramatic expansion of Excel based applications plus templates and exercises accompanying many of the chapters and available online New chapters prepare readers to use statistical tests to identify significant differences in performance averages construct Pareto charts develop cause and effect diagrams prepare control charts detect possible discrimination in hiring and appointment practices and present analytic evidence more effectively This book is an essential resource for students and instructors of public administration courses on analysis methods evaluation productivity improvement and service delivery Online resources for this book including Excel templates are available at <https://toolsfordecisionmaking.sog.unc.edu>



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