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# Asset Management And Decision Support In A Costcutting Regime

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Asset Management of Physical Infrastructure: Managerial Frameworks, Policy, and Practice  
Life Cycle Cost Model to Support Asset Management Decision Making  
Optimum Decision Making in Asset Management  
Integrated High Resolution Imaging Radar and Decision Support System for the Rehabilitation of WATER PIPELINES  
Whole-life Value-based Decision-making in Asset Management  
Advanced Maintenance Modelling for Asset Management  
Investments in Federal Facilities  
Physical Asset Management  
Sustainable Asset Accumulation and Dynamic Portfolio Decisions  
The Dharma of Capitalism  
Global Real Estate Investment Trusts  
Advances in Asset Management and Condition Monitoring  
16th WCEAM Proceedings  
Risk Based Decision Making in Integrated Asset Management  
Enterprise Information Management  
Alternative Decision-Making Models for Financial Portfolio Management: Emerging Research and Opportunities  
Power System Assets  
Decision Support Systems Third Edition  
Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)  
Decision Analysis and Implementation Guidance in Strategic Asset Management  
Investment Management  
Whole-life Value-based Decision-making in Asset Management  
Asset Management Decision Support Tools  
Capital Asset Management  
Value Based and Intelligent Asset Management  
Achieving Investment Excellence  
Asset Management  
Investment Management  
Battle Group Asset Management Decision Support System  
Public Sector Property Asset Management  
Investment Leadership and Portfolio Management  
Asset Condition, Information Systems and Decision Models  
Artificial Intelligence in Asset Management  
Optimised Decision Making Guidelines  
The New Frontier Investors  
Asset Management Decision-Making For Infrastructure Systems  
Asset Management Decision-Making  
Project Portfolio Management, Second Edition

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## MIDDLETON HUDSON

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*Asset Management of Physical Infrastructure: Managerial Frameworks, Policy, and Practice* John Wiley & Sons

The intent of the text is not to focus on the tools and techniques of asset management since these are dealt with extensively within other guidance documents and textbooks, but to place those within a strategic and tactical context of organisational development in asset management. Importantly, by bringing together international best practice and research, together with critically related knowledge domains that underpin the landscape of the discipline, the intent is to address the development of asset management capabilities within organisations and the challenges of deploying asset management skills in organisations. This is a particularly important challenge in developed and emerging economies. In broad terms the book will integrate: concepts of strategic management with those of asset management, portfolio, programme, and project management notions of the 'Intelligent Client' creation and enhancement of organisational capabilities in AM as an organisational change initiative

**Life Cycle Cost Model to Support Asset Management Decision Making** Springer Nature  
Crucial methods, tactics and tools for successful pension fund management  
Achieving Investment Excellence offers trustees and asset managers a comprehensive handbook for improving the quality of their investments. With a stated goal of substantially and sustainably improving annual returns, this book clarifies and demystifies important concepts surrounding trustee duties and responsibilities, investment strategies, analysis, evaluation and much more. Low interest rates are making the high cost of future pension payouts fraught with tension, even as the time and knowledge required to manage these funds appropriately increases — it is no wonder that pensions are increasingly seen as a financial liability. Now more than ever, it is critical that trustees understand exactly what contributes to investment success — and what detracts from it. This book details the roles, the tools and the strategies that make pension funds pay off. Understand the role of pension funds and the fiduciary duty of trustees  
Learn the tools and skills you need to build profound and lasting investment excellence  
Analyse, diagnose and improve investment quality of funds using concrete tools and instruments  
Study illustrative examples that demonstrate critical implementation and execution advice  
Packed with expert insight, crucial tools and real-life examples, this book is an important resource for those tasked with governing these. Achieving Investment Excellence provides the expert insight, clear guidance and key wisdom you need to manage these funds successfully.

*Optimum Decision Making in Asset Management* IGI Global

Who holds the power in financial markets? For many, the answer would probably be the large investment banks, big asset managers, and hedge funds. These are the organizations that are in the

media's spotlight and whose leaders and employees command outsized salaries and bonuses. They are the supposed leading edge of global finance and their power seems almost absolute, even as questions abound about their social and economic utility. But more and more asset owners are confronting the status quo, the power to exact high fees and the focus on the short term. The New Frontier Investors chronicles the rise of this new group of long horizon asset owners that includes some of the world's largest pension funds, sovereign wealth funds, and endowments. These asset owners are driving the business of asset management to a new frontier by retaking responsibility of the end-to-end management of their investment portfolios and by re-conceptualizing investment decision-making. The lessons illustrated in The New Frontier Investors fly in the face of conventional wisdom, which has it that these asset owners are at a disadvantage to the private sector fund managers and other service providers. These asset owners are supposedly not able to attract talent nor do they have the organizational capabilities to compete. That many are located far from the markets in which they invest only exacerbates the problem. But this is incorrect. This expanding group of asset owners is learning how to make the most of their scale and long time horizons, finding new ways to attract talent, to collaborate, and to build greater alignment with the users of capital. They are not at a disadvantage. They are at an advantage. The New Frontier Investors is essential reading for anyone wanting to see a change in global financial markets and the professionalization of asset owners worldwide, from public pension funds and sovereign wealth funds to foundations and endowments. It is thus required reading for the senior executives and employees working in the field of beneficiary institutional investment, as well as government officials and others that have a stake in the design and governance of beneficiary financial institutions and long-term capital.

*Integrated High Resolution Imaging Radar and Decision Support System for the Rehabilitation of WATER PIPELINES* John Wiley & Sons

The focus of this book is aimed at providing a mechanism to determine the individual and cumulative contribution of portfolio components to strategic objectives so that the right decisions can be made regarding those components. Project portfolio management (PfM) is a critically important discipline, which organizations must embrace in order to extract the maximum value from their project investments. Essentially, PfM can be defined as the translation of strategy and organizational objectives into projects, programs, and operations (portfolio components); the allocation of resources to portfolio components according to organizational priorities; alignment of components to one or more organizational objectives and the management and control of these components in order to achieve organizational objectives and benefits. The interest and contribution to the body of knowledge in project portfolio management has been growing significantly in recent years, however, a particular area of concern is the decision-making, during the management of the portfolio, regarding which portfolio components to accelerate, suspend, or terminate. Failing to determine how the individual and cumulative components of a portfolio contribute to an organization's strategic objectives leads to poorly informed decisions that negate the positive effect

that a sound understanding of project portfolio management could have in an organization. Whole-life Value-based Decision-making in Asset Management Van Nostrand Reinhold Company Federally owned capital assets include some 500,000 buildings and similar facilities worldwide acquired during 200 years of government operations. Government facilities are used to defend the national interest; conduct foreign policy; house historic, cultural and educational artifacts; pursue research; and provide services to the American public. These buildings and structures project an image of American government at home and abroad, contribute to the architectural and socioeconomic fabric of their communities, and support the organizational and individual performance of federal employees conducting the business of government. Federal facilities embody significant investments and resources and therefore constitute a portfolio of public assets. At least 30 separate agencies manage these facilities. As stewards of this public investment, federal facilities program managers face a number of challenges. In the 1990s Congress and the Executive Branch took a number of initiatives to improve capital asset decision making in the federal government. These include enacting the Government Performance and Results Act of 1993, the Federal Acquisition Streamlining Act of 1994, the Clinger-Cohen Act of 1996 and a series of federal financial accounting standards; developing the Capital Programming Guide (1997); and appointing the President's Commission to Study Capital Budgeting (1997). Senior and mid-level agency officials are now seeking ways to implement these initiatives efficiently and effectively. The Federal Facilities Council (FFC) sponsored a conference entitled "Capital Asset Management: Tools and Strategies For Decision Making" to highlight strategies and ideas for capital asset management so that federal and other public agencies can improve decision making for facilities investment. Held at the National Academy of Sciences in Washington, D.C., on September 13, 2000, the conference featured speakers from the public, non-profit, and private sectors. *Capital Asset Management: Tools and Strategies For Decision Making: Conference Proceedings* summarizes the presentations made at that conference. The speakers focused on trends and best practices in capital budgeting; capital asset decision making processes in three federal agencies; building a case for capital reinvestment; and new tools for federal agencies. Online resources referred to by the speakers are listed in Appendix A. Appendix B contains the speakers' biographies.

Advanced Maintenance Modelling for Asset Management National Academies Press

This book presents a systematic approach to the management of physical assets from concept to disposal, building upon the previous editions and brought up-to-date with the new international standards ISO55002 and ISO/TS50010. It introduces the general principles of physical asset management and covers all stages of the asset management process, including initial business appraisal, identification of physical asset needs, capability gap analysis, financial evaluation, logistic support analysis, life cycle costing, strategic asset management planning, maintenance strategy, outsourcing, cost-benefit analysis, disposal and renewal. Features include: providing a textbook for asset management courses to university level; relating closely to the ISO55000 international asset management standard series; providing a basis for the establishment of physical asset management as a professional discipline; and presenting case studies, analytical techniques and numerical examples with solutions. Written for practitioners and students in asset management, this book provides an essential foundation to the topic. It is suitable for an advanced undergraduate or

postgraduate course in asset management and also offers an ideal reference text for engineers and managers specializing in asset management, reliability, maintenance, logistics or systems engineering.

**Investments in Federal Facilities** IGI Global

This CIGRE Green Book describes the state-of-the-art of power Systems asset management dealing with all aspects asset management practice. The major focus of the book is on documenting practical methods that bridge the gap between just satisfying an asset management process and achieving real asset management results in the form of smarter investment decisions. The book facilitates collaboration and blending of the engineering and technical aspects of asset management and the financial considerations needed to support asset investment decisions using risk-based business case analysis. Detailed case studies are included to illustrate generic and specific or customized methods and to demonstrate the application of such methods from the technology perspectives of several CIGRE study committees. This practical guide is suitable for working asset managers and decision-makers (both engineering and financial) dealing with all aspects of the practice of asset management.

*Physical Asset Management* Springer

As real estate investment trusts continue to grow exponentially in Asia and Europe - being already well established in the USA and Australasia - a comprehensive guide to the issues involved in REIT property investment decision making is badly needed. This book draws together the most recent developments in REIT management from academic research and professional practice. It is based on current, original academic research, including structured interviews with the managers of a wide range of different types of REITs as well as the research and publications of others, together with the author's 25 years experience in REIT management. It provides a theoretically robust and practically relevant up to date guide to the property investment decision making process for REITs. Presenting new insights, the author breaks the REIT property investment decision making process down into three phases comprising six stages with 30 sequential steps. Each chapter focuses on one stage of the property investment decision making process and introduces the key people in the REIT management team relevant to the activities in that chapter. The theory and principles are considered and illustrated by application to Super REIT, a \$15bn diversified REIT. *Global Real Estate Investment Trusts: People, Process and Management* fuses not only how REITs should undertake property investment decision making - based on how it is undertaken and the underlying property theory, capital market theory and finance theory - but also why each part of the decision making process is important. This book provides the first sole-authored scholarly work specifically on REITs as a business enterprise and REIT property investment decision making as an holistic and cyclical process. The focus is on principles, making it relevant in each of the four major REIT markets around the world: USA, Europe, Asia and Australasia. An essential book for REIT managers and all those practising professionals involved in the REIT industry - including property practitioners, researchers, lawyers, accountants, bankers and directors around the world.

Sustainable Asset Accumulation and Dynamic Portfolio Decisions Springer

Economics is an integral aspect to every successful society, yet basic financial practices have gone unchanged for decades. Analyzing unconventional finance methods can provide new ways to ensure

personal financial futures on an individual level, as well as boosting international economies. *Alternative Decision-Making Models for Financial Portfolio Management: Emerging Research and Opportunities* is an essential reference source that discusses methods and techniques that make financial administration more efficient for professionals in economic fields. Featuring relevant topics such as mean-variance portfolio theory, decision tree analysis, risk protection strategies, and asset-liability management, this publication is ideal for academicians, students, economists, and researchers that would like to stay current on new and innovative methods to transform the financial realm.

**The Dharma of Capitalism** John Wiley & Sons

This textbook provides practical and concrete guidance for the step-by-step implementation of decision-making for infrastructure asset management. Examples are used to illustrate how data from condition assessment are used to develop performance models, to estimate the effectiveness of investments that are prioritized and scheduled to accomplish reliable and convenient infrastructure for the wellbeing of the public and regional economic competitiveness. Book illustrates numerous worked problems to clarify ambiguity in developing a decision-making platform to prioritize assets and distribute budgets effectively and efficiently. Ensures reader understanding of the benefits and challenges of infrastructure asset management; Provides a step-by-step guide for the development of each component of an asset management decision-making system; Includes worked examples to clarify decision-making and budget allocation process.

**Global Real Estate Investment Trusts** Kogan Page Publishers

This book comprises refereed papers from the 10th World Congress on Engineering Asset Management (WCEAM 2015), held in Tampere, Finland in September 2015. These proceedings include a compilation of state-of-the-art papers covering a comprehensive range of subjects equally relevant to business managers and engineering professionals alike. With a focus on various aspects of engineering asset management ranging from strategic level issues to detail-level machine health issues, these papers address both industry and public sector concerns and issues, as well as advanced academic research. Proceedings of the WCEAM 2015 is an excellent reference and resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students at tertiary institutions or in the industry.

*Advances in Asset Management and Condition Monitoring* Springer Science & Business Media

How are decision support systems and data mining similar? Are decision support systems getting people to conform? How can you provide prompt decision support systems via mobile so that consumers can react quickly to critical market events? What are the decision support systems and how do they support supply chain management? What are asset management decision support systems? This instant Decision support systems self-assessment will make you the reliable Decision support systems domain adviser by revealing just what you need to know to be fluent and ready for any Decision support systems challenge. How do I reduce the effort in the Decision support systems work to be done to get problems solved? How can I ensure that plans of action include every Decision support systems task and that every Decision support systems outcome is in place? How will I save time investigating strategic and tactical options and ensuring Decision support systems costs are low? How can I deliver tailored Decision support systems advice instantly with structured

going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Decision support systems essentials are covered, from every angle: the Decision support systems self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Decision support systems outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Decision support systems practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Decision support systems are maximized with professional results. Your purchase includes access details to the Decision support systems self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Decision support systems Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

*16th WCEAM Proceedings* Springer Nature

Whole-Life Value-based Decision Making will provide detailed guidance for making whole-life asset management decisions based on value rather than cost.

*Risk Based Decision Making in Integrated Asset Management* National Academies Press

This book examines sustainable wealth formation and dynamic decision-making. The global economy experienced a veritable meltdown of asset markets in the years 2007-9, where many funds were overexposed to risky returns and suffered considerable losses. On the other hand, the long-term upswing in the stock market since 2010 has led to asset price booms and some new, but also uneven, wealth formation. In this book a broader set of constraints and guidelines for asset management and wealth accumulation is developed. The authors investigate how wealth formation and the proper management of financial funds can help to adequately buffer income risk and obtain sufficient risk-free income at a later stage of life, while also being socially and environmentally sustainable. The book explores behavioral and institutional rules for decision-making that reflect such constraints and guidelines, without necessarily being optimal in the narrow sense. The authors explain the need for such a dynamic decision-making and dynamic re-balancing of portfolios, by putting forward dynamic programming as an approach to dynamic decision-making that can allow sustainable wealth accumulation and dynamic asset allocation to be successfully integrated. This book provides a clear and comprehensive treatment of asset accumulation and dynamic portfolio models with an emphasis on long term and sustainable wealth formation. An important concern in public debate is the sustainability of our economy and this book employs cutting edge quantitative techniques and models to highlight important facts that cannot be disputed under any reasonable

assumptions. It has the potential to become a standard reference for both academic researchers and quantitatively trained practitioners. Eckhard Platen, Professor of Quantitative Finance, University of Technology Sydney, Australia This book should be read by both academics and practitioners alike. The former will find intellectually rigorous discussions and innovative solutions. The latter may find a few of the concepts a bit challenging. Yet, theory and technology are there to help simplify the work of those who worry about what time it is rather than how to make a watch--- but they do need a watch. Jean Brunel, Founder of Brunel Associates and Editor of The Journal of Wealth Management *Enterprise Information Management* IWA Publishing

In many public sector organisations, there has been little or no adoption of a proactive asset management strategy. Where an extensive property portfolio exists, this can result in poor overall utilisation of the portfolio, exemplified by excessive vacant property or properties not being put to best use. In such situations there is a risk that the building stock deteriorates more rapidly than expected, leading to expensive maintenance and repair charges. Lack of a proactive asset management strategy will impact on the services delivered by such organisations. Public Sector Property Asset Management covers all aspects of asset management in the public sector, including the overall concept, the development of asset management strategies and the implementation of asset management practices. It evaluates asset management strategies, processes and practices to show how effective management of property assets support business activities or service delivery functions. The reader will understand the importance of improving decision-making through the recognition of all costs of owning and operating those assets throughout their lifecycle, leading to improved business process activities or service delivery functions which greatly assist in meeting the social and economic objectives of such organisations. Written for all practitioners currently involved in asset management, the book will also be useful in the university environment, to those teaching, researching or learning about asset management in the public sector.

*Alternative Decision-Making Models for Financial Portfolio Management: Emerging Research and Opportunities* CFA Institute Research Foundation

A battle group commander's successful employment of the assets in his battle group heavily relies on his conceptualization of the pragmatic capabilities of each of these assets. This thesis comprises an interactive decision support system (DSS), which utilizes database management and high resolution computer graphics, to assist the commander in meeting this challenge. The DSS incorporates data on specific systems installed on each unit as the basis for user developed capability effectiveness system coverage displays. The system is designed to be operated through discrete speech voice recognition equipment. (Author).

*Power System Assets* Springer

Track 3 of WERF's Strategic Asset Management Project was developed to provide guidance on implementing SAM...and develop analytic tools for SAM implementation - the Decision Support Tools and Implementation Guidance goal. In Track 3, the Decision Support Tools and Implementation Guidance goal was organized around two major elements: \*Analytic/Decision Support Tools - Develop staged, user-friendly analytic and decision support tools (gap analysis, cost benefit analysis, risk management, life cycle costing, condition assessment selection tool, etc.) for SAM implementation and continuous improvement. \*Implementation Tool - Provide practical, accessible

guidance for an implementation tool to undertake SAM in incremental stages leading to a well-planned, structured, and progressive implementation to suit the needs of a diverse range of utilities' communication practices. Task Order 2 provided for the following deliverables: \*Set up Practitioner Tool-Review Working Group and Establish Framework \*Catalogue Available Commercial Off-The-Shelf SAM tools \*Identify and Prioritize Core Set of Tools \*Identify Critical Success Factors for Implementing SAM \*Review and Modify the Gap Analysis Tool \*Refine the Six Alternative Routes to Implementation Tool \*Develop Information Requirements for SAM Decision Making The materials presented in the following sections were developed as a result of executing Task Order 2 to achieve the Project goal. Each chapter details a separate deliverable. Relevant developed materials have been or are in the process of being added to SIMPLE, WERF's web-based asset management knowledge base. Asset management can be defined as a way of management thinking and a set of best practices built around a structured framework that assist asset managers in making the most cost effective investment decisions in existing and new assets to sustain long term performance of the assets in an environment of limited resources where these decisions represent an integration of operations, maintenance, and capital intervention strategies. At the heart of the framework is the concept of business risk - a metric that measures the interaction of the probability of failure, the consequence of failure, and risk mitigation strategies. This research: \*Facilitates the adoption of best practice in asset management in the public water utility industry. \*Provides an asset management knowledge base that is a structured repository of a broad range and deeply substantive collection of materials oriented toward the practicing asset manager. \*Addresses the why and how of asset management at levels for novice, intermediate, and advanced practitioners.

**Decision Support Systems Third Edition** Springer

There are confusions related to the area of asset management. At this moment, searching over the internet with the keyword "asset management", most of the links show the issue about financial asset management such as asset investments, securities, stocks, and obligations. In a simple term, the word "asset management" refers to managing financial asset. However, the term asset does not only include financial asset. In ISO 55000 (2014), the term asset is defined as an item, thing or entity that has potential or actual value to an organization. The value of asset can be categories as financial or non-financial value, tangible or intangible value, and may vary between different organizations and their stakeholders. With this definition, the term asset is very broad and may consist any type of asset such as human resources, stock, building, inventory, trust, capital, goodwill, and land. In this book, the term asset mainly refers to engineering (physical) asset, physical asset as the result of an engineering process (e.g. buildings, machineries, bridges, roads, vehicles, oil rigs, plants, metro tunnels, piping system, rail lines).

**Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)** Springer Nature

Asset Condition, Information Systems and Decision Models, is the second volume of the Engineering Asset Management Review Series. The manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics. The increasing trend is towards prognostics rather than diagnostics, hence the need for assessment and decision models that promote the conversion of condition data into prognostic

information to improve life-cycle planning for engineered assets. The research papers included here serve to support the on-going development of Condition Monitoring standards. This volume comprises selected papers from the 1st, 2nd, and 3rd World Congresses on Engineering Asset Management, which were convened under the auspices of ISEAM in collaboration with a number of organisations, including CIEAM Australia, Asset Management Council Australia, BINDT UK, and Chinese Academy of Sciences, Beijing University of Chemical Technology, China. Asset Condition, Information Systems and Decision Models will be of particular interest to finance, maintenance, and operations personnel whose roles directly affect the capability value of engineering asset base, as well as asset managers in both industry and government.

*Decision Analysis and Implementation Guidance in Strategic Asset Management* International Water

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At a time when the business world is still adjusting to the impact of the financial crisis, leaders and decision-makers at all levels need to rethink their attitudes and strategies. Looking for new ways to conduct business, a number of global companies have already started changing their business models. The objective is not only to become more sustainable and responsible but more profitable in the long-term. In *The Dharma of Capitalism* Nitesh Gor explains why doing the right thing is more than a noble idea or a compliance issue and why it can be both practical and profitable. Filled with practical advice and real-life examples, *The Dharma of Capitalism* is a thought-provoking, process-based toolkit that will help you evaluate every aspect of your business and achieve profit with purpose rather than profit for profit's sake.