

## Asset Management And Decision Support In A Costcutting Regime

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

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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.

Asset management is becoming increasingly important to an organization's strategy, given its effects on cost, production, and quality. No matter the sector, important decisions are made based on techniques and theories that are thought to optimize results; asset management models and techniques could help maximize effectiveness while reducing risk. Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models. Resolving the problems associated with

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

minimizing uncertainty, this publication outlines a myriad of methodologies, procedures, case studies, and management tools that can help any organization achieve world-class maintenance. This book is ideal for managers, manufacturing engineers, programmers, academics, and advanced management students.

Asset management has been receiving greater attention at both the state and national levels. Escalating demands by the public for increased accountability, aging infrastructure, increasingly constrained resources, new funding challenges, and increasing emphasis on the private provision of public services and public-private partnerships all point to the need for asset management at the Delaware Department of Transportation (DelDOT). This report documents the results of the research project "Asset Management as a Strategic Decision Making Tool in DelDOT." This includes documenting the state of the practice of asset management in DelDOT, gaps and issues, and an implementation plan developed to introduce asset management within DelDOT as a strategic decision support tool.

Chapter one. Introduction -- Chapter two. Literature review -- Chapter three. Survey results -- Chapter four. Survey results analysis -- Chapter five. Conclusions and recommendations.

Engineering and infrastructure assets maintain the lifeline of economies. It is, therefore, critical to manage these assets in such a way that they provide a consistent level of service throughout their lifecycle. Management of asset lifecycle, however, is information intensive and utilises a plethora of information systems. The role of

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

these systems in asset management is much more profound. It extends beyond the organizational boundaries and addresses business relationships with external stakeholders to deliver enhanced level of business outcomes. In doing so information systems are not only required to translate business strategic considerations into action, but are also expected to produce learnings and feedback that informs business strategy and aids in strategic reorientation.

"This book explains and summarizes the processes (course of actions and the number of stages or steps to follow) and the reference frame (the essential support structure and the basic system) necessary for the implementation of the introduced maintenance management model (MMM) and will help managers, technology developers, scientists and engineers to adopt and implement optimum decision making based on techniques of maintenance and reliability in organizations"--

Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity.

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).

In the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever increasing

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

competitiveness. To overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle. Especially the design phase and operation and maintenance phase have seen a rise in tools and methods. Smarter design can lead to improved operation. Likewise, improved operation and maintenance leads to lower replacement costs and may provide the basis for better design. This book brings together and coherently presents the current state of the art in asset management research and practice in Europe from a life cycle perspective. Each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle, thus treating this important subject from a unique perspective.

This study developed a web-based prototype decision support platform to demonstrate the benefits of transportation asset management in monitoring asset performance, supporting asset funding decisions, planning budget tradeoffs, and optimizing resource allocations. The goal is to build consensus and gain senior management support for implementing asset management throughout the Department, which requires investments for data collection and integration, standardization of process and definition, and management information system acquisition and implementation. A centralized

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

transportation asset database that integrates data from various sources was built to support the data-driven decision support tools. This allows reports/presentations to be generated quickly and enables what-if analyses to be performed. A total of 23 functions were developed in five categories: inventory, condition, performance, investment, and planning. The tradeoff analysis function is developed for evaluating funding levels versus performance and cross-asset budget allocation decisions.

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

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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. This proceeding represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Eight World Congress on Engineering Asset Management (WCEAM). The Proceedings of the WCEAM 2013 is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such as: 1. Asset condition monitoring and intelligent maintenance, 2. Asset data warehousing, data mining and fusion, 3. Asset performance and level-of-service models, 4. Design and life-cycle integrity of physical assets, 5. Deterioration and preservation models for assets, 6. Education and training in asset management, 7. Engineering standards in asset management, 8. Fault diagnosis and prognostics, 9. Financial analysis methods for physical assets, 10. Human dimensions in integrated asset management, 11. Information quality management, 12. Information systems and knowledge management, 13. Intelligent sensors and



## Download Ebook Asset Management And Decision Support In A Costcutting Regime

devices, 14. Maintenance strategies in asset management, 15. Optimisation decisions in asset management, 16. Risk management in asset management, 17. Strategic asset management, 18. Sustainability in asset management. King WONG served as Congress Chair for WCEAM 2013 and ICUMAS 2013 is the President of the Hong Kong Institute of Utility Specialists (HKIUS) and Convener of International Institute of Utility Specialists (IIUS). Peter TSE is the Director of the Smart Engineering Asset Management laboratory (SEAM) at the City University of Hong Kong and served as the Chair of WCEAM 2013 Organising Committee. Joseph MATHEW served as the Co-Chair of WCEAM 2013 is also WCEAM's General Chair. He is the Chief Executive Officer of Asset Institute, Australia.

With at least 40% new or updated content since the last edition, *Clinical Decision Support, 2nd Edition* explores the crucial new motivating factors poised to accelerate Clinical Decision Support (CDS) adoption. This book is mostly focused on the US perspective because of initiatives driving EHR adoption, the articulation of 'meaningful use', and new policy attention in process including the Office of the National Coordinator for Health Information Technology (ONC) and the Center for Medicare and Medicaid Services (CMS). A few chapters focus on the broader international perspective. *Clinical Decision Support, 2nd Edition* explores the

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

technology, sources of knowledge, evolution of successful forms of CDS, and organizational and policy perspectives surrounding CDS. Exploring a roadmap for CDS, with all its efficacy benefits including reduced errors, improved quality, and cost savings, as well as the still substantial roadblocks needed to be overcome by policy-makers, clinicians, and clinical informatics experts, the field is poised anew on the brink of broad adoption. Clinical Decision Support, 2nd Edition provides an updated and pragmatic view of the methodological processes and implementation considerations. This book also considers advanced technologies and architectures, standards, and cooperative activities needed on a societal basis for truly large-scale adoption. At least 40% updated, and seven new chapters since the previous edition, with the new and revised content focused on new opportunities and challenges for clinical decision support at point of care, given changes in science, technology, regulatory policy, and healthcare finance. Informs healthcare leaders and planners, health IT system developers, healthcare IT organization leaders and staff, clinical informatics professionals and researchers, and clinicians with an interest in the role of technology in shaping healthcare of the future.

It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management (WCEAM) being held at the Conrad

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

Jupiters Hotel on the Gold Coast from July 11 to 14, 2006. More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference. Day four will be host to a series of workshops devoted to the practice of various aspects of Engineering Asset Management. WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management. It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of: strategic asset management risk management in asset management design and life-cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management, warehousing and mining condition monitoring and intelligent maintenance intelligent sensors and devices regulations and standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management. We have attracted academics, practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every aspect of daily life.

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

Facilities now owned by the Federal Government are valued at over \$300 billion. It also spends over \$25 billion per year for acquisition, renovation, and upkeep. Despite the size of these sums, there is a growing litany of problems with federal facilities that continues to put a drain on the federal budget and compromise the effectiveness of federal services. To examine ways to address these problems, the sponsoring agencies of the Federal Facilities Council (FFC) asked the National Research Council (NRC) to develop guidelines for making improved decisions about investment in and renewal, maintenance, and replacement of federal facilities. This report provides the result of that assessment. It presents a review of both public and private practices used to support such decision making and identifies appropriate objectives, practices, and performance measures. The report presents a series of recommendations designed to assist federal agencies and departments improve management of and investment decision making for their facilities.

India is becoming the "global back office" to international supply chains. This book consists of peer-reviewed and invited papers with two primary goals: (1) Stimulate creative discussion between academic researchers and the practitioner IS community to improve the research and practice in the area. (2) Increase awareness of the problems and challenges faced by global enterprises that can be met with innovative decision support systems. Explores a framework for applying asset-management principles and practices to managing Interstate Highway System investments.

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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.

'Whole-Life Value Based Decision Making in Asset Management' is a comprehensive guide to improving the effectiveness of infrastructure asset management by determining the level of expenditure on infrastructure assets in order to maximise lifecycle value.

Business industries depend on advanced models and tools that provide an optimal and objective decision-making process, ultimately guaranteeing improved competitiveness, reducing risk, and eliminating uncertainty. Thanks in part to the digital era of the modern world, reducing these conditions has become

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

much more manageable. *Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts* provides research exploring the theoretical and practical aspects of effective decision making based not only on mathematical techniques, but also on those technological tools that are available nowadays in the Fourth Industrial Revolution. Featuring coverage on a broad range of topics such as industrial informatics, knowledge management, and production planning, this book is ideally designed for decision makers, researchers, engineers, academicians, and students. This guidebook addresses asset and infrastructure management applicable to all areas of the operation of an airport. The primer portion of the report includes an overview of an asset and infrastructure management program and explores the benefits and costs of implementation. The guidebook portion of the report provides examples from various airports and is designed to be a reference for integrating proven asset and infrastructure management practices and techniques at airports of all sizes. The report defines an asset and infrastructure management program and its components and how a program relates to daily operations and longer-term planning. In addition, the project that developed ACRP Report 69 also produced a PowerPoint presentation, which can be used to present the benefits of a program to stakeholders--

Drainage infrastructure systems (culvert, storm sewer, outfall and related drainage elements) are mostly buried underground and are in need of special attention in terms of proactive/preventive asset management strategy. Drainage

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

infrastructure systems represent an integral portion of roadway assets that routinely require inspection, maintenance, repair and renewal. Further challenges are the wide geospatial distribution of these infrastructure assets and environmental exposure. There has been considerable research conducted on culverts, but mostly looked at the problem from a traditional structural/geotechnical perspective. Asset management procedures for culverts and drainage infrastructure systems are complex issues, and can benefit a great deal from an optimal asset management program that draws from programs pertaining to buried pipes. The first and most important step in an asset management initiative is the establishment of mechanism for asset inventory and asset conditions in a format compatible with the routine procedures of field operators and inspectors. The first objective of this research project was to develop field protocols and operational business rules for inventory data collection and management and inspection of drainage infrastructures in terms of types of data to be collected, frequency of inspection, and analysis and reporting mechanisms. After review of these protocols by the project oversight committee, a pilot study was conducted to verify efficiency of their implementation. The condition assessment protocol introduced is useful in evaluating the overall condition of culverts and can be used for decision making regarding the repair, renewal or replacement of culverts. For the second objective of this project, investigators examined the inventory and inspection protocols employed by Ohio Department of Transportation (ODOT) and developed a decision support platform, which establishes a link between the inspection results and appropriate repair, renewal and replacement procedures. After applying the recommended procedures, the transportation agencies can better track the conditions of culverts thereby reducing the risks of culvert failures.



## Download Ebook Asset Management And Decision Support In A Costcutting Regime

This book promotes and describes the application of objective and effective decision making in asset management based on mathematical models and practical techniques that can be easily implemented in organizations. This comprehensive and timely publication will be an essential reference source, building on available literature in the field of asset management while laying the groundwork for further research breakthroughs in this field. The text provides the resources necessary for managers, technology developers, scientists and engineers to adopt and implement better decision making based on models and techniques that contribute to recognizing risks and uncertainties and, in general terms, to the important role of asset management to increase competitiveness in organizations.

Many EU cities are experiencing increasing problems with their water pipeline infrastructure. The cost of replacing these old, worn-out systems, if left to deteriorate beyond repair, is astronomical and clearly beyond the resources of many communities. Replacement, however, is not the only choice as many of these systems can be rehabilitated at 30 to 70 percent of the cost of replacement. Accordingly, resources are now increasingly being allocated to address pipeline rehabilitation management issues. Due to the emphasis on sustainable management, risk-based approaches for the rehabilitation management of the water supply network need to be developed. Rehabilitation decisions should be based, inter alia, on inspection and evaluation of the pipeline conditions. Yet, utilities cannot locate a number of their old pipes and current inspection technologies typically do not provide the needed detailed information on pipeline damage. The objectives of this book are to describe the research work carried out in the framework of WATERPIPE project aiming: \*

To develop a novel, high-resolution imaging ground penetrating radar for the detection of pipes, leaks and

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

damages and the imaging of the damaged region and evaluate it at a test site. \* To produce an integrated system that will contain the equipment in "1" and a Decision-Support-System (DSS) for the rehabilitation management of the underground water pipelines that will use input from the inspections to assess, probabilistically, the time-dependent leakage and structural reliability of the pipelines and a risk-based methodology for rehabilitation decisions that considers the overall risk, including financial, social and environmental criteria. \* To field test the equipment and the Decision-Support-System

This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2019), held at the University of Huddersfield, UK in September 2019, and jointly organized by the University of Huddersfield and COMADEM International. The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management. The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring, maintenance, structural health monitoring, non-destructive testing and other allied areas. Bringing together expert contributions from academia and industry, this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques.

This book presents a range of qualitative and quantitative analyses in areas such as cybersecurity, sustainability, multivariate analysis, customer satisfaction, parametric

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

programming, software reliability growth modeling, and blockchain technology, to name but a few. It also highlights integrated methods and practices in the areas of machine learning and genetic algorithms. After discussing applications in supply chains and logistics, cloud computing, six sigma, production management, big data analysis, satellite imaging, game theory, biometric systems, quality, and system performance, the book examines the latest developments and breakthroughs in the field of science and technology, and provides novel problem-solving methods. The themes discussed in the book link contributions by researchers and practitioners from different branches of engineering and management, and hailing from around the globe. These contributions provide scholars with a platform to derive maximum utility in the area of analytics by subscribing to the idea of managing business through system sciences, operations, and management. Managers and decision-makers can learn a great deal from the respective chapters, which will help them devise their own business strategies and find real-world solutions to complex industrial problems. 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

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

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.

Definitions, Concepts and Scope of Engineering Asset Management, the first volume in this new review series, seeks to minimise ambiguities in the subject matter. The ongoing effort to develop guidelines is shaping the future towards the creation of a body of knowledge for the management of engineered physical assets. Increasingly, industry practitioners are looking for strategies and tactics that can be applied to enhance the value-creating capacities of new and installed asset systems. The new knowledge-based economy paradigm provides imperatives to combine various disciplines, knowledge areas and skills for effective engineering asset management. 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. Definitions, Concepts and Scope of Engineering Asset Management will be of interest to researchers in engineering, innovation and technology management, as well as to managers, planners and policy-makers in both industry and government.

The fundamental motivation of this book is to contribute to the future advancement of Asset Management in the context of industrial plants and infrastructures. The book aims to foster a future perspective that takes advantage of value-based and intelligent asset management in order to make a step forward with respect to the evolution observed nowadays. Indeed, the current

## Download Ebook Asset Management And Decision Support In A Costcutting Regime

understanding of asset management is primarily supported by well-known standards. Nonetheless, asset management is still a young discipline and the knowledge developed by industry and academia is not set in stone yet. Furthermore, current trends in new organizational concepts and technologies lead to an evolutionary path in the field. Therefore, this book aims to discuss this evolutionary path, starting first of all from the consolidated theory, then moving forward to discuss:

- The strategic understanding of value-based asset management in a company;
- An operational definition of value, as a concept on the background of value-based asset management;
- The identification of intelligent asset management, with the aim to frame a set of “tools” recommended to support the asset-related decision-making process over the asset lifecycle;
- The emergence of new technologies such as cyber physical systems and digital twins, and the implications of this on asset management.

Transportation Asset Management (TAM) systems are in use at a significant number of transportation agencies. These systems can be used to effectively allocate resources and continuously inventory and monitor the condition of transportation infrastructure assets. Risk-oriented decision making is becoming an increasingly important component of the management process at many organizations, including transportation agencies. TAM systems can be used to incorporate risk assessment and risk management techniques at transportation agencies.

Optimum Decision Making in Asset ManagementIGI

# Download Ebook Asset Management And Decision Support In A Costcutting Regime

Global

This book fills an important gap in housing research, covering the impact of recent changes in housing policies and markets on the development of state-of-the-art asset management within the social rented sector in various countries.

[Copyright: daeebe5b10a3caf622b7b26aefb72faf](#)