

technology in asset management

technology in asset management has revolutionized how organizations oversee, maintain, and optimize their assets. As industries become increasingly data-driven, the integration of advanced technologies in asset management processes allows for improved efficiency, reduced costs, and enhanced decision-making. From the adoption of artificial intelligence and machine learning to the implementation of Internet of Things (IoT) devices, technology plays a pivotal role in transforming traditional asset management methods. This article explores the various technological innovations impacting asset management, their benefits, and challenges, along with future trends shaping the industry. The following sections will cover digital transformation in asset management, key technologies driving change, benefits of technology adoption, challenges faced, and emerging trends in this dynamic field.

- Digital Transformation in Asset Management
- Key Technologies Driving Asset Management
- Benefits of Technology in Asset Management
- Challenges in Implementing Technology in Asset Management
- Future Trends in Technology for Asset Management

Digital Transformation in Asset Management

Digital transformation in asset management refers to the integration of digital technology into all areas of asset management operations, fundamentally changing how organizations manage their physical and financial assets. This transformation enables companies to move from reactive maintenance and manual record-keeping to predictive maintenance and automated workflows. The shift towards digital asset management systems allows for real-time monitoring, enhanced data analytics, and improved asset lifecycle management.

Evolution from Traditional to Digital Systems

Historically, asset management relied heavily on paper-based records and periodic manual inspections, which were time-consuming and prone to errors. The advent of digital systems introduced computerized maintenance management systems (CMMS) and enterprise asset management (EAM) software, streamlining data collection and reporting. These systems have evolved to incorporate cloud computing, enabling centralized data access and collaboration across departments and locations.

Impact on Operational Efficiency

Digital transformation enhances operational efficiency by automating routine tasks, facilitating predictive analytics, and enabling seamless integration with other business systems. This reduces downtime, optimizes asset utilization, and improves compliance with regulatory requirements. Overall, digital transformation in asset management results in smarter, data-driven decision-making and better resource allocation.

Key Technologies Driving Asset Management

Several cutting-edge technologies are instrumental in advancing asset management practices. These technologies provide tools and insights that enable organizations to optimize the performance and longevity of their assets.

Internet of Things (IoT)

IoT devices are sensors and connected equipment that collect real-time data on asset conditions, usage, and environment. This data is transmitted to central systems for monitoring and analysis. IoT enhances asset visibility and allows for predictive maintenance, reducing unexpected failures and repair costs.

Artificial Intelligence and Machine Learning

AI and machine learning algorithms analyze vast amounts of asset data to identify patterns, predict failures, and recommend maintenance schedules. These technologies enable proactive asset management strategies that improve reliability and reduce operational risks.

Cloud Computing

Cloud-based asset management solutions provide scalable, flexible platforms that support data storage, processing, and remote access. Cloud computing facilitates collaboration among stakeholders and ensures that asset information is up-to-date and accessible from anywhere.

Big Data Analytics

Big data analytics involves processing large datasets generated from asset operations to uncover insights and trends. This technology supports decision-making related to asset investment, lifecycle management, and risk assessment.

Blockchain Technology

Blockchain offers secure and transparent record-keeping for asset transactions and provenance. This technology helps in verifying asset ownership, preventing fraud, and enhancing trust in asset management processes.

- Internet of Things (IoT) for real-time monitoring
- Artificial Intelligence (AI) and Machine Learning for predictive analytics
- Cloud Computing for scalable data management
- Big Data Analytics for actionable insights
- Blockchain for secure asset tracking

Benefits of Technology in Asset Management

The integration of technology in asset management delivers numerous benefits that contribute to operational excellence, cost savings, and improved asset performance.

Enhanced Asset Visibility and Tracking

Technology enables continuous monitoring of assets, providing detailed information on location, condition, and performance. This visibility helps organizations optimize asset utilization and quickly respond to issues.

Improved Maintenance Strategies

Predictive maintenance powered by AI and IoT reduces unplanned downtime by forecasting equipment failures. This approach extends asset lifespan and lowers maintenance expenses compared to reactive methods.

Data-Driven Decision Making

Advanced analytics tools transform raw data into actionable insights, enabling asset managers to make informed decisions about asset acquisition, disposal, and operational improvements.

Cost Reduction and Efficiency Gains

Automation of routine processes reduces labor costs and human error. Additionally, optimized maintenance and asset utilization lead to significant savings in operational expenditures.

Regulatory Compliance and Risk Management

Technology helps organizations maintain accurate records and generate reports necessary for compliance with industry standards and regulations. Enhanced data security also mitigates risks related to asset management.

Challenges in Implementing Technology in Asset Management

Despite the significant advantages, deploying technology in asset management presents various challenges that organizations must address to fully realize its potential.

High Initial Investment Costs

Adopting advanced technologies such as IoT sensors and AI platforms often requires substantial upfront capital expenditure, which can be a barrier for some organizations.

Integration with Legacy Systems

Many organizations operate legacy asset management systems that may not be compatible with new technologies, complicating integration efforts and data consistency.

Data Quality and Management

Effective technology use depends on accurate and comprehensive data. Inconsistent or incomplete data can undermine analytics and decision-making processes.

Cybersecurity Risks

Increased connectivity exposes asset management systems to potential cyber threats. Ensuring robust cybersecurity measures is essential to protect sensitive asset information.

Workforce Training and Change Management

Successful technology adoption requires training personnel and managing organizational change to ensure smooth transition and user acceptance.

Future Trends in Technology for Asset Management

The future of technology in asset management is poised to be shaped by continuous innovation and evolving business needs. Emerging trends are expected to further enhance asset management capabilities.

Advanced Predictive Analytics and AI

Next-generation AI models will provide even more accurate predictions and autonomous decision-making, enabling fully automated asset management processes in some sectors.

Edge Computing

Edge computing brings data processing closer to assets, reducing latency and bandwidth usage. This technology will enhance real-time analytics and responsiveness in asset monitoring.

Augmented Reality (AR) and Virtual Reality (VR)

AR and VR applications will support asset maintenance and training by providing immersive, interactive environments for technicians and managers.

Sustainability and Green Asset Management

Technological solutions will increasingly focus on optimizing assets for energy efficiency and environmental impact, aligning asset management with sustainability goals.

Increased Adoption of Blockchain

Blockchain will expand its role in ensuring transparency and traceability across complex asset management supply chains and transactions.

- Advanced AI for autonomous management

- Edge computing for faster data processing
- Augmented and virtual reality for maintenance
- Sustainable asset optimization
- Expanded blockchain applications

Frequently Asked Questions

How is artificial intelligence transforming asset management?

Artificial intelligence enhances asset management by enabling predictive analytics, automating routine tasks, improving risk assessment, and personalizing investment strategies to optimize portfolio performance.

What role does blockchain play in modern asset management?

Blockchain provides secure, transparent, and tamper-proof ledgers for asset transactions, improving trust, reducing fraud, streamlining settlement processes, and enhancing overall efficiency in asset management.

How are big data analytics used in asset management?

Big data analytics allows asset managers to analyze vast amounts of market data, identify trends, assess risks, and make data-driven investment decisions, leading to improved portfolio returns and risk management.

What is the impact of robo-advisors on asset management?

Robo-advisors automate portfolio management using algorithms, offering low-cost, scalable, and accessible investment solutions, which democratize asset management and appeal to a broader range of investors.

How does cloud computing benefit asset management firms?

Cloud computing provides scalable infrastructure, enhances data accessibility, improves collaboration, reduces IT costs, and enables real-time data processing, thereby increasing operational efficiency in asset management.

What cybersecurity challenges do asset management firms face with technology adoption?

With increased digitalization, asset management firms face risks such as data breaches, cyber-attacks, and insider threats, necessitating robust

cybersecurity measures to protect sensitive financial and client information.

How does technology improve regulatory compliance in asset management?

Technology automates compliance monitoring, reporting, and auditing processes, ensuring asset management firms adhere to regulatory requirements efficiently and reduce the risk of non-compliance penalties.

What is the significance of Internet of Things (IoT) in asset management?

IoT devices provide real-time data on physical assets, enabling better tracking, maintenance, and optimization of asset performance, which enhances decision-making and reduces operational costs.

How are machine learning algorithms used to manage investment portfolios?

Machine learning algorithms analyze historical and real-time data to identify patterns, forecast market movements, optimize asset allocation, and continuously learn to improve portfolio management strategies.

What future technology trends are expected to influence asset management?

Future trends include increased use of AI and machine learning, blockchain integration, enhanced data analytics, adoption of quantum computing, and greater focus on sustainable investing powered by technology.

Additional Resources

1. Technology-Driven Asset Management: Innovations and Strategies

This book explores the transformative impact of emerging technologies on asset management. It covers topics such as AI, machine learning, and blockchain, illustrating how these advancements optimize asset tracking and decision-making. Practical case studies demonstrate successful technology integration in various industries.

2. Artificial Intelligence in Asset Management: Enhancing Investment Strategies

Focusing on AI applications, this book delves into how machine learning algorithms improve portfolio management and risk assessment. Readers will learn about predictive analytics, automated trading systems, and AI-driven market insights. It provides a comprehensive overview suitable for both beginners and experienced professionals.

3. Blockchain and Asset Management: Securing the Future of Investments

This title examines the role of blockchain technology in increasing transparency and security in asset management. It discusses decentralized finance (DeFi), smart contracts, and tokenization of assets. The book also highlights regulatory challenges and future prospects of blockchain adoption.

4. Data Analytics for Asset Management: Techniques and Tools

Covering the essentials of data analytics, this book guides readers through collecting, analyzing, and interpreting asset data to drive better management decisions. It introduces statistical methods, visualization tools, and big data technologies tailored for asset managers. Real-world examples illustrate the practical application of these techniques.

5. *Cybersecurity in Asset Management: Protecting Digital Investments*

This book addresses the critical issue of cybersecurity in the asset management sector. It outlines common threats, vulnerability assessments, and best practices for safeguarding digital assets. The text also reviews regulatory requirements and frameworks to ensure compliance and risk mitigation.

6. *IoT and Smart Asset Management: Connecting the Physical and Digital Worlds*

Exploring the Internet of Things (IoT), this book highlights how connected devices improve asset monitoring and maintenance. It explains sensor technologies, real-time data collection, and predictive maintenance models. The book offers insights into the challenges and benefits of deploying IoT solutions in asset management.

7. *Cloud Computing in Asset Management: Scalability and Efficiency*

This title focuses on the adoption of cloud technologies to enhance asset management operations. It discusses cloud infrastructure, SaaS platforms, and data storage solutions that enable scalability and cost reduction. Case studies demonstrate how cloud computing facilitates collaboration and data accessibility.

8. *Digital Transformation in Asset Management: Strategies and Best Practices*

A comprehensive guide to implementing digital transformation initiatives within asset management firms. The book covers change management, technology selection, and integration strategies. It includes success stories and lessons learned from industry leaders who have navigated digital shifts.

9. *Robotics and Automation in Asset Management: Streamlining Operations*

This book explores the application of robotics and automation technologies to optimize asset management workflows. Topics include robotic process automation (RPA), automated asset tracking, and maintenance robots. The text provides insights into cost savings, efficiency gains, and future trends in automation.

Technology In Asset Management

Find other PDF articles:

<https://www-01.massdevelopment.com/archive-library-302/Book?ID=pZD60-8198&title=forge-financial-shippensburg-pa.pdf>

technology in asset management: Asset Management Excellence John D. Campbell, Andrew K.S. Jardine, Joel McGlynn, Don M. Barry, 2024-02-09 This is the third edition of Asset Management Excellence: Optimizing Equipment Life-Cycle Decisions. This edition acknowledges and introduces the many changes to the Asset Management business while continuing to explain the supporting fundamentals. Since the second edition, there have been many influences of change in

asset management, society's expectations, and supporting technologies. In this edition, the contributors have revisited the content and have updated and added insights and information based on the emerging influences in thinking and the continued evolution of applied technologies since the prior editions. New in the Third Edition: Updates across each of the second edition chapters to align with today's insights Updates on technologies now available to support Asset Management, including related software packaging, the Internet of Things (IoT), Machine Learning, and Artificial Intelligence Insights on how Information Technology can step up to help an asset-intensive organization compete, drive to operational excellence and automation A chapter on sustainability and the influence Asset Management may have on this higher-focus priority A chapter on change enablement as the process and technology changes impact the various stakeholders of asset-intensive organizations The fundamentals of Asset Management are essential as Asset-intensive organizations look to technologies to help them compete. AI is becoming pervasive but must be confirmed and aligned with the fundamentals. This edition will provoke thought as each organization determines its next steps toward its new challenges in Asset Management.

technology in asset management: Asset Condition, Information Systems and Decision Models Joe E. Amadi-Echendu, Kerry Brown, Roger Willett, Joseph Mathew, 2012-11-05 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.

technology in asset management: *Information Systems for Engineering and Infrastructure Asset Management* Abrar Haider, 2012-11-08 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 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.

technology in asset management: Healthcare Technology Management - A Systematic Approach Francis Hegarty, John Amore, Paul Blackett, Justin McCarthy, Richard Scott, 2017-01-06 Healthcare Technology Management: A Systematic Approach offers a comprehensive description of a method for providing safe and cost effective healthcare technology management (HTM). The approach is directed to enhancing the value (benefit in relation to cost) of the medical equipment assets of healthcare organizations to best support patients, clinicians and other care providers, as well as financial stakeholders. The authors propose a management model based on interlinked strategic and operational quality cycles which, when fully realized, delivers a comprehensive and transparent methodology for implementing a HTM programme throughout a healthcare organization. The approach proposes that HTM extends beyond managing the technology in isolation to include advancing patient care through supporting the application of the technology. The book

shows how to cost effectively manage medical equipment through its full life cycle, from acquisition through operational use to disposal, and to advance care, adding value to the medical equipment assets for the benefit of patients and stakeholders. This book will be of interest to practicing clinical engineers and to students and lecturers, and includes self-directed learning questions and case studies. Clinicians, Chief Executive Officers, Directors of Finance and other hospital managers with responsibility for the governance of medical equipment will also find this book of interest and value. For more information about the book, please visit the website.

technology in asset management: Value Maximisation from Information Technology in Asset Management - a Cultural Study Abrar Haider, 2009

technology in asset management: IT (Information Technology) Portfolio Management Step-by-Step Bryan Maizlish, Robert Handler, 2005-04-28 Praise for IT Portfolio Management Step-by-Step Bryan Maizlish and Robert Handler bring their deep experience in IT 'value realization' to one of the most absent of all IT management practices--portfolio management. They capture the essence of universally proven investment practices and apply them to the most difficult of challenges--returning high strategic and dollar payoffs from an enterprise's IT department. The reader will find many new and rewarding insights to making their IT investments finally return market leading results. --John C. Reece, Chairman and CEO, John C. Reece & Associates, LLC Former deputy commissioner for modernization and CIO of the IRS IT Portfolio Management describes in great detail the critical aspects, know-how, practical examples, key insights, and best practices to improve operational efficiency, corporate agility, and business competitiveness. It eloquently illustrates the methods of building and integrating a portfolio of IT investments to ensure the realization of maximum value and benefit, and to fully leverage the value of all IT assets. Whether you are getting started or building on your initial success in IT portfolio management, this book will provide you information on how to build and implement an effective IT portfolio management strategy. --David Mitchell, President and CEO, webMethods, Inc. I found IT Portfolio Management very easy to read, and it highlights many of the seminal aspects and best practices from financial portfolio management. It is an important book for executive, business, and IT managers. --Michael J. Montgomery, President, Montgomery & Co. IT Portfolio Management details a comprehensive framework and process showing how to align business and IT for superior value. Maizlish and Handler have the depth of experience, knowledge, and insight needed to tackle the challenges and opportunities companies face in optimizing their IT investment portfolios. This is an exceptionally important book for executive leadership and IT business managers, especially those wanting to build a process-managed enterprise. --Peter Fingar, Executive Partner Greystone Group, coauthor of The Real-Time Enterprise and Business Process Management (BPM): The Third Wave A must-read for the non-IT manager who needs to understand the complexity and challenges of managing an IT portfolio. The portfolio management techniques, analysis tools, and planning can be applied to any project or function. --Richard Max Maksimoski, Senior Director R&D, The Scotts Company This book provides an excellent framework and real-world based approach for implementing IT portfolio management. It is a must-read for every CIO staff considering how to strategically and operationally impact their company's bottom line. --Donavan R. Hardenbrook, New Product Development Professional, Intel Corporation

technology in asset management: Information Technology Investment Management United States. General Accounting Office. Accounting and Information Management Division, 2000 If managed wisely, investments in information technology (IT) can enrich people's lives and improve organizational performance. For example, during the last decade the Internet has matured from being a technical novelty to a national resource where citizens can visit the Library of Congress or file their tax returns. Some organizations have realized substantial improvements in processing data and information by switching from centralized mainframe computing to decentralized personal computers linked by local area networks. The ability of software applications to locate and correlate relevant data in a data warehouse permits organizations to discover unknown fiscal or physical resource relationships and thus provide appropriate assistance where there had been none. The

Clinger-Cohen Act of 1996' was enacted to address many of the problems related to federal IT management.

technology in asset management: Engineering Asset Management Joseph Mathew, Lin Ma, Andy Tan, Deryk Anderson, 2008-02-06 It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management (WCEAM) being held at the Conrad 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.

technology in asset management: Sustainable Asset Management Roopchan Lutchman, 2006 Presents ways of maintaining and improving assets in utilities and manufacturing environments.

technology in asset management: Digital Asset Management David Austerberry, 2012-10-12 Content and media asset management systems are core back office applications of the modern day broadcaster, yet there is little information available on the control and management of these systems and how content can be delivered over a variety of different channels: television, iTV, internet, webcasting, mobile phones and wireless PDAs. This book explains the potential for applying asset management systems to content creation models for distribution over a variety of outlets and the benefits gained from increased efficiency and lowering of costs. Taking an unbiased view and focusing on core principles rather than specific systems, David Austerberry presents the business case for digital asset management systems, demystifies some assumptions regarding the technology and provides a thorough introduction to the system components required, such as indexing, searching, middleware, database and rightsmanagement and web portals.

technology in asset management: Asset Management Primer , 1999

technology in asset management: Information Technology Investment Management Jeffrey C. Steinhoff, 2000-11 The Clinger-Cohen Act of 1996 was enacted to address many of the problems related to Fed. information technology mgmt. In 1997 GAO developed guidance that provides a method for evaluating & assessing how well a Fed. agency is selecting & managing its information technology resources & identifies specific areas where improve. can be made. The Info. Technology Investment Mgmt. (ITIM) framework enhances this guidance by identifying critical processes for successful information technology invest. & organizing these processes into a framework of increasingly mature stages. Chapters: overview, components, & uses of ITIM; uses of ITIM; & critical process for the ITIM stages. Charts & tables.

technology in asset management: Pocket CIO - The Guide to Successful IT Asset Management Phara McLachlan, 2018-03-30 Create and manage a clear working IT asset management strategy with this unique guide Key Features A detailed IT Asset Management (ITAM) guidebook with real-world templates that can be converted into working ITAM documents Includes in-depth discussion on how risk management has changed and the possible solutions needed to address the new normal A step-by-step ITAM manual for newbies as well as seasoned ITAM veterans Book DescriptionThis book is a detailed IT Asset Management (ITAM) guidebook with real-world templates that can be converted into working ITAM documents. It is a step-by-step IT Asset

Management manual for the newbies as well as the seasoned ITAM veterans, providing a unique insight into asset management. It discusses how risk management has changed over time and the possible solutions needed to address the new normal. This book is your perfect guide to create holistic IT Asset Management and Software Asset Management programs that close the risk gaps, increases productivity and results in cost efficiencies. It allows the IT Asset Managers, Software Asset Managers, and/or the full ITAM program team to take a deep dive by using the templates offered in the guidebook. You will be aware of the specific roles and responsibilities for every aspect of IT Asset Management, Software Asset Management, and Software License Compliance Audit Response. By the end of this book, you will be well aware of what IT and Software Asset Management is all about and the different steps, processes, and roles required to truly master it. What you will learn

- Close the hidden risk gaps created by IT assets (hardware and software)
- Create and manage a proactive ITAM and SAM program and policy
- A clear, concise explanation of what IT Asset Management and Software Asset Management is, the benefits, and results
- The best ways to manage a software audit and how to be prepared for one
- Considerations for selecting the best technology for a specific company including what questions should be asked at the onset
- Increasing ITAM program and project success with change management
- Who this book is for

This book is intended for CIOs, VPs and CTOs of mid to large-sized enterprises and organizations. If you are dealing with changes such as mergers, acquisitions, divestitures, new products or services, cyber security, mandated regulations, expansion, and much more, this book will help you too.

technology in asset management: Clinical Engineering Azzam Taktak, Paul Ganney, David Long, Richard Axell, 2019-12-01 Clinical Engineering: A Handbook for Clinical and Biomedical Engineers, Second Edition, helps professionals and students in clinical engineering successfully deploy medical technologies. The book provides a broad reference to the core elements of the subject, drawing from a range of experienced authors. In addition to engineering skills, clinical engineers must be able to work with both patients and a range of professional staff, including technicians, clinicians and equipment manufacturers. This book will not only help users keep up-to-date on the fast-moving scientific and medical research in the field, but also help them develop laboratory, design, workshop and management skills. The updated edition features the latest fundamentals of medical technology integration, patient safety, risk assessment and assistive technology.

- Provides engineers in core medical disciplines and related fields with the skills and knowledge to successfully collaborate on the development of medical devices, via approved procedures and standards
- Covers US and EU standards (FDA and MDD, respectively, plus related ISO requirements)
- Includes information that is backed up with real-life clinical examples, case studies, and separate tutorials for training and class use
- Completely updated to include new standards and regulations, as well as new case studies and illustrations

technology in asset management: *Power and Gas Asset Management* Miguel Moreira da Silva, 2020-01-01 This book offers meaningful insights into an impending challenge for the energy industry, namely the increasing role of asset management amongst the utilities' core operations. In the aftermath of energy digitalization, power and gas companies will be able to seize asset productivity—through risk-based operation and maintenance—and better balance capital and operational expenditures. By addressing the asset management of both power and gas infrastructures, and by adopting a comprehensive approach—including regulation and business models, as well as a solid technology background—this book offers a unique perspective on the energy utilities' transformation journey and the road to optimal decision-making for both asset portfolio expansion and replacement. The asset management end-to-end mission requires appropriate internal governance—depending on the business framework—and the development of decision aid models (for asset replacement and maintenance), supported on probabilistic risk and reliability indexes. This book advocates systematically digitalizing the power and gas assets, addressing both data governance and infrastructure, alongside real-time equipment condition monitoring. It also provides a meaningful methodology for designing data-centric asset management and predictive operation and maintenance, using artificial intelligence and engineering-based

approaches. As such, it provides valuable strategy, methods and models—illustrated by case studies and proofs of concept—for a wide range of stakeholders, including utilities and industry professionals, regulators, policy-makers, researchers and students.

technology in asset management: IT (Information Technology) Portfolio Management Step-by-Step Bryan Maizlish, Robert Handler, 2010-10-07 Praise for IT Portfolio Management Step-by-Step Bryan Maizlish and Robert Handler bring their deep experience in IT 'value realization' to one of the most absent of all IT management practices--portfolio management. They capture the essence of universally proven investment practices and apply them to the most difficult of challenges--returning high strategic and dollar payoffs from an enterprise's IT department. The reader will find many new and rewarding insights to making their IT investments finally return market leading results. --John C. Reece, Chairman and CEO, John C. Reece & Associates, LLC Former deputy commissioner for modernization and CIO of the IRS IT Portfolio Management describes in great detail the critical aspects, know-how, practical examples, key insights, and best practices to improve operational efficiency, corporate agility, and business competitiveness. It eloquently illustrates the methods of building and integrating a portfolio of IT investments to ensure the realization of maximum value and benefit, and to fully leverage the value of all IT assets. Whether you are getting started or building on your initial success in IT portfolio management, this book will provide you information on how to build and implement an effective IT portfolio management strategy. --David Mitchell, President and CEO, webMethods, Inc. I found IT Portfolio Management very easy to read, and it highlights many of the seminal aspects and best practices from financial portfolio management. It is an important book for executive, business, and IT managers. --Michael J. Montgomery, President, Montgomery & Co. IT Portfolio Management details a comprehensive framework and process showing how to align business and IT for superior value. Maizlish and Handler have the depth of experience, knowledge, and insight needed to tackle the challenges and opportunities companies face in optimizing their IT investment portfolios. This is an exceptionally important book for executive leadership and IT business managers, especially those wanting to build a process-managed enterprise. --Peter Fingar, Executive Partner Greystone Group, coauthor of The Real-Time Enterprise and Business Process Management (BPM): The Third Wave A must-read for the non-IT manager who needs to understand the complexity and challenges of managing an IT portfolio. The portfolio management techniques, analysis tools, and planning can be applied to any project or function. --Richard Max Maksimoski, Senior Director R&D, The Scotts Company This book provides an excellent framework and real-world based approach for implementing IT portfolio management. It is a must-read for every CIO staff considering how to strategically and operationally impact their company's bottom line. --Donavan R. Hardenbrook, New Product Development Professional, Intel Corporation

technology in asset management: Software Ecosystems Slinger Jansen, Michael A. Cusumano, Sjaak Brinkkemper, 2013-01-01 This book describes the state-of-the-art of software ecosystems. It constitutes a fundamental step towards an empirically based, nuanced understanding of the implications for management, governance, and control of software ecosystems. This is the first book of its kind dedicated to this emerging field and offers guidelines on how to analyze software ecosystems; methods for managing and growing; methods on transitioning from a closed software organization to an open one; and instruments for dealing with open source, licensing issues, product management and app stores. It is unique in bringing together industry experiences, academic views and tackling challenges such as the definition of fundamental concepts of software ecosystems, describing those forces that influence its development and lifecycles, and the provision of methods for the governance of software ecosystems. This book is an essential starting point for software industry researchers, product managers, and entrepreneurs.

technology in asset management: *Official Gazette of the United States Patent and Trademark Office*, 2004

technology in asset management: Proceedings of the Future Technologies Conference (FTC) 2023, Volume 4 Kohei Arai, 2023-11-07 This book is a collection of thoroughly well-researched

studies presented at the Eighth Future Technologies Conference. This annual conference aims to seek submissions from the wide arena of studies like Computing, Communication, Machine Vision, Artificial Intelligence, Ambient Intelligence, Security, and e-Learning. With an impressive 490 paper submissions, FTC emerged as a hybrid event of unparalleled success, where visionary minds explored groundbreaking solutions to the most pressing challenges across diverse fields. These groundbreaking findings open a window for vital conversation on information technologies in our community especially to foster future collaboration with one another. We hope that the readers find this book interesting and inspiring and render their enthusiastic support toward it.

technology in asset management: *Pavement Asset Management* Ralph Haas, W. Ronald Hudson, 2015-05-26 Comprehensive and practical, *Pavement Asset Management* provides an essential resource for educators, students and those in public agencies and consultancies who are directly responsible for managing road and airport pavements. The book is comprehensive in the integration of activities that go into having safe and cost-effective pavements using the best technologies and management processes available. This is accomplished in seven major parts, and 42 component chapters, ranging from the evolution of pavement management to date requirements to determining needs and priority programming of rehabilitation and maintenance, followed by structural design and economic analysis, implementation of pavement management systems, basic features of working systems and finally by a part on looking ahead. The most current methodologies and practical applications of managing pavements are described in this one-of-a-kind book. Real world up-to-date examples are provided, as well as an extensive list of references for each part.

Related to technology in asset management

These are the Top 10 Emerging Technologies of 2025 The World Economic Forum's latest Top 10 Emerging Technologies report explores the tech on the cusp of making a massive impact on our lives

Explained: Generative AI's environmental impact - MIT News MIT News explores the environmental and sustainability implications of generative AI technologies and applications

Exploring the impacts of technology on everyday citizens MIT Associate Professor Dwai Banerjee studies the impact of technology on society, ranging from cancer treatment to the global spread of computing

How technology convergence is redefining the future Innovation thrives on technology convergence or combination, convergence and compounding. Mastering these can tackle global challenges and shape technology

Technology convergence is leading us to the fifth industrial revolution Technology convergence across industries is accelerating innovation, particularly in AI, biotech and sustainability, pushing us closer to the fifth industrial revolution. Bioprinting

Technology Convergence Report 2025 | World Economic Forum The Technology Convergence Report 2025 offers leaders a strategic lens - the 3C Framework - to help them navigate the combinatorial innovation era

Does technology help or hurt employment? - MIT News Economists used new methods to examine how many U.S. jobs have been lost to machine automation, and how many have been created as technology leads to new tasks. On

The Future of Jobs Report 2025 | World Economic Forum Technological change, geoeconomic fragmentation, economic uncertainty, demographic shifts and the green transition - individually and in combination are among the

These are the top five energy technology trends of 2025 There are several key energy technology trends dominating 2025. Security, costs and jobs; decarbonization; China; India; and AI all need to be carefully monitored. The World

Meet the Technology Pioneers driving innovation in 2025 The Forum's 25th cohort of Technology Pioneers is using tech to efficiently scale solutions to pressing global problems, from smart robotics to asteroid mining

These are the Top 10 Emerging Technologies of 2025 The World Economic Forum's latest Top 10 Emerging Technologies report explores the tech on the cusp of making a massive impact on our lives

Explained: Generative AI's environmental impact - MIT News MIT News explores the environmental and sustainability implications of generative AI technologies and applications

Exploring the impacts of technology on everyday citizens MIT Associate Professor Dwai Banerjee studies the impact of technology on society, ranging from cancer treatment to the global spread of computing

How technology convergence is redefining the future Innovation thrives on technology convergence or combination, convergence and compounding. Mastering these can tackle global challenges and shape technology

Technology convergence is leading us to the fifth industrial Technology convergence across industries is accelerating innovation, particularly in AI, biotech and sustainability, pushing us closer to the fifth industrial revolution. Bioprinting

Technology Convergence Report 2025 | World Economic Forum The Technology Convergence Report 2025 offers leaders a strategic lens - the 3C Framework - to help them navigate the combinatorial innovation era

Does technology help or hurt employment? - MIT News Economists used new methods to examine how many U.S. jobs have been lost to machine automation, and how many have been created as technology leads to new tasks. On

The Future of Jobs Report 2025 | World Economic Forum Technological change, geoeconomic fragmentation, economic uncertainty, demographic shifts and the green transition - individually and in combination are among the

These are the top five energy technology trends of 2025 There are several key energy technology trends dominating 2025. Security, costs and jobs; decarbonization; China; India; and AI all need to be carefully monitored. The World

Meet the Technology Pioneers driving innovation in 2025 The Forum's 25th cohort of Technology Pioneers is using tech to efficiently scale solutions to pressing global problems, from smart robotics to asteroid mining

Related to technology in asset management

Will a \$5 Billion AI Power Deal Redefine Brookfield Asset Management's (TSX:BAM) Investment Narrative? (1d) Bloom Energy and Brookfield Asset Management recently announced a US\$5 billion partnership to deploy fuel cell technology for powering AI factories, with plans for global expansion and an initial site

Will a \$5 Billion AI Power Deal Redefine Brookfield Asset Management's (TSX:BAM) Investment Narrative? (1d) Bloom Energy and Brookfield Asset Management recently announced a US\$5 billion partnership to deploy fuel cell technology for powering AI factories, with plans for global expansion and an initial site

DJC Tech Asset Management Launches North American Headquarters in Toronto, Anchored by AstraMind™ AI (4d) Toronto, Canada, October 11th, 2025, FinanceWireDJC Tech Asset Management Ltd. (DJC Tech), a global leader in AI-driven

DJC Tech Asset Management Launches North American Headquarters in Toronto, Anchored by AstraMind™ AI (4d) Toronto, Canada, October 11th, 2025, FinanceWireDJC Tech Asset Management Ltd. (DJC Tech), a global leader in AI-driven

BlackRock Developing In-House Technology for Asset Tokenization: Larry Fink Says 'We Need To Be Tokenizing All Assets' (Stocktwits on MSN1d) CEO Larry Fink said on Tuesday that the investment giant is actively developing in-house technology to advance the

BlackRock Developing In-House Technology for Asset Tokenization: Larry Fink Says 'We Need To Be Tokenizing All Assets' (Stocktwits on MSN1d) CEO Larry Fink said on Tuesday that

the investment giant is actively developing in-house technology to advance the

Asset Management in IT: From Tracking Tools to Smart Systems (Devdiscourse6mon) Asset management has transitioned from basic tracking tools to embedded smart systems. This shift has allowed organizations

Asset Management in IT: From Tracking Tools to Smart Systems (Devdiscourse6mon) Asset management has transitioned from basic tracking tools to embedded smart systems. This shift has allowed organizations

HVA Group Launches DNEX: Building Vietnam's Gateway to Global Digital Asset Markets (5d) HVA Group Integrates Proven Technology Infrastructure, Financial Institution Partnerships, and Regulatory Expertise to Build Vietnam's Gateway to Global Digital Asset Markets DA NANG, VIETNAM / ACCESS

HVA Group Launches DNEX: Building Vietnam's Gateway to Global Digital Asset Markets (5d) HVA Group Integrates Proven Technology Infrastructure, Financial Institution Partnerships, and Regulatory Expertise to Build Vietnam's Gateway to Global Digital Asset Markets DA NANG, VIETNAM / ACCESS

JPMorgan plans \$600bn asset growth in Asia-Pacific within five years-report (Private Banker International on MSN14h) "JPMorgan plans \$600bn asset growth in Asia-Pacific within five years-report" was originally created and published by Private Banker International, a GlobalData owned brand

JPMorgan plans \$600bn asset growth in Asia-Pacific within five years-report (Private Banker International on MSN14h) "JPMorgan plans \$600bn asset growth in Asia-Pacific within five years-report" was originally created and published by Private Banker International, a GlobalData owned brand

Jeremy Boerger is the expert you need for IT asset management (USA Today2y) Asset management is essential to an organization's general strategy as it delivers current information to cut risks and costs. An asset management practice creates a single source of verification when

Jeremy Boerger is the expert you need for IT asset management (USA Today2y) Asset management is essential to an organization's general strategy as it delivers current information to cut risks and costs. An asset management practice creates a single source of verification when

Sharps Technology expands Solana digital asset treasury strategy with Coinbase (Crypto Briefing6d) Sharps Technology expands Solana digital asset treasury strategy through a strategic collaboration with Coinbase Global

Sharps Technology expands Solana digital asset treasury strategy with Coinbase (Crypto Briefing6d) Sharps Technology expands Solana digital asset treasury strategy through a strategic collaboration with Coinbase Global

Brief: DISA needs asset management (Washington Technology21y) The Defense Information Systems Agency needs information technology asset management solutions. The agency released a request for information to collect data on establishing a centralized repository

Brief: DISA needs asset management (Washington Technology21y) The Defense Information Systems Agency needs information technology asset management solutions. The agency released a request for information to collect data on establishing a centralized repository

Back to Home: <https://www-01.massdevelopment.com>