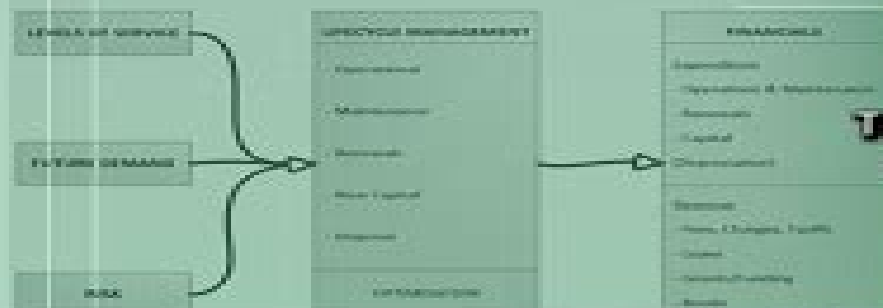




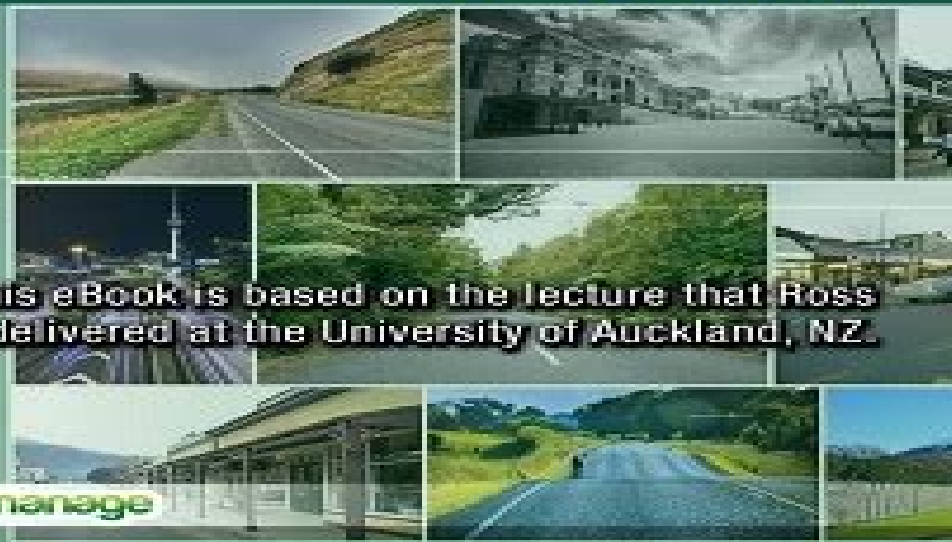
# PREPARING, IMPLEMENTING, & REVIEWING **ASSET MANAGEMENT PLANS**

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Service Levels, Growth, Risk,  
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This eBook is based on the lecture that Ross delivered at the University of Auckland, NZ.



# International Infrastructure Management Manual 2015 Edition

**Eric J. Strauss**



## **International Infrastructure Management Manual 2015 Edition:**

**International Infrastructure Management Manual**, 2011 *Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)* Kari T. Koskinen, Helena Kortelainen, Jussi Aaltonen, Teuvo Uusitalo, Kari Komonen, Joseph Mathew, Jouko Laitinen, 2016-03-25 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

**A Comprehensive Guide to Managing Municipal Infrastructure Assets** Soliman Abusamra, Ayman H. El Hakea, 2025-03-31 Comprehensive and practical this book provides an essential resource for educators researchers students and those in public agencies and consultancies who are directly responsible for managing municipal infrastructure such as roads water and sewer pipes The book is thorough in the integration of procedures that establish a cost effective intervention plan using the latest technologies and management processes It examines all the aspects of developing an optimal asset management plan for collocated municipal assets It presents the evolution of asset management from data requirements to investment planning and priority programming of rehabilitation and maintenance It offers a coordinated approach to effectively manage municipal infrastructure and offers integrated solutions that aid decision makers in taking informed decisions on 1 when to maintain each asset 2 which corridors shall be prioritized and 3 what is the best intervention to undertake for each asset It also offers a compelling vision of how infrastructure and cities will evolve by 2050 shaped by advancements in digital technology transportation governance sustainability resilience and climate change It provides invaluable insights for practitioners emphasizing how today's decisions and investments will directly influence the future of urban environments Features Presents the most current methodologies and practical applications of managing collocated municipal infrastructure Includes case studies and practical examples for each step as well as an extensive list of references for each asset class Examines novel approaches for reduced lifecycle costs enhanced conditions improved level of service reduced risk increased maintenance effectiveness and reduced service disruptions Explores the future of urban infrastructure in 2050 helping practitioners envision tomorrow's cities and make informed investment decisions in today's infrastructure

**15th WCEAM Proceedings** João Onofre Pereira Pinto, Marcio Luiz Magri Kimpara, Renata Rezende Reis, Turuna Seecharan, Belle R. Upadhyaya, Joe Amadi-Echendu, 2022-03-24 This book gathers selected peer reviewed papers from the 15th World Congress on Engineering Asset Management WCEAM which was hosted by The Federal University of

Mato Grosso do Sul Campo Grande Brazil from 15 18 August 2021 This book covers a wide range of topics in engineering asset management including strategy and standards sustainability and resiliency servitisation and Industry 4 0 business models asset information systems and asset management decision making The breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students *Bearing Capacity of Roads, Railways and Airfields* Andreas

Loizos, Imad Al-Qadi, Tom Scarpas, 2017-07-20 Bearing Capacity of Roads Railways and Airfields includes the contributions to the 10th International Conference on the Bearing Capacity of Roads Railways and Airfields BCRRA 2017 28 30 June 2017 Athens Greece The papers cover aspects related to materials laboratory testing design construction maintenance and management systems of transport infrastructure and focus on roads railways and airfields Additional aspects that concern new materials and characterization alternative rehabilitation techniques technological advances as well as pavement and railway track substructure sustainability are included The contributions discuss new concepts and innovative solutions and are concentrated but not limited on the following topics Unbound aggregate materials and soil properties Bound materials characteristics mechanical properties and testing Effect of traffic loading In situ measurements techniques and monitoring Structural evaluation Pavement serviceability condition Rehabilitation and maintenance issues Geophysical assessment Stabilization and reinforcement Performance modeling Environmental challenges Life cycle assessment and sustainability Bearing Capacity of Roads Railways and Airfields is essential reading for academics and professionals involved or interested in transport infrastructure systems in particular roads railways and airfields **Asset and Infrastructure Management for Airports**, 2012 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

**Ageing of Infrastructure** Frank Collins, Frédéric Blin, 2018-09-21 The book addresses the problem of ageing infrastructure and how ageing can reduce the service life below expected levels The rate of ageing is affected by the type of construction material environmental exposure function of the infrastructure and loading each of these factors is considered in the assessment of ageing How do international design codes address ageing Predictive models of ageing behaviour are available and the different types empirical deterministic and probabilistic are discussed in a whole of life context Life cycle plans initiated at the design stage can ensure that the design life is met while optimising the management of the asset

reducing life cycle costs and reducing the environmental footprint due to less maintenance remediation interventions and fewer unplanned stoppages and delays Health monitoring of infrastructure can be conducted via implanted probes wired or wireless or by non destructive testing that can routinely measure the durability loading and exposure environments at key locations around the facility Routine monitoring can trigger preventative maintenance that can extend the life of the infrastructure and minimise unplanned and reactive remediation while also providing ongoing data that can be utilised towards more durable future construction Future infrastructure will need to be safe and durable financially and environmentally sustainable over the lifecycle thereby raising socio economic wellbeing The book concludes by discussing the key impacting factors that will need to be addressed The author brings a strong academic and industry background to present a resource for academics and practitioners wishing to address the ageing of built infrastructure

**Fundamentals of Port Engineering** Koos Schoonees, 2023-12-21 Port engineering primarily deals with the design construction operation management and maintenance of ports overlapping with many other disciplines This book provides an introductory text to prospective graduate port engineers and presents a wide variety of port subjects for practicing engineers It covers almost all topics related to port engineering in a fundamental way including dredging marine aids to navigation environmental issues containers liquid bulk dry bulk general cargo multipurpose roll on roll off Ro Ro fishing and ferry terminals Discussions are targeted at a conceptual design level Other features Aspects of port engineering are discussed including shipping maritime trade environmental aspects such as climate change resilience of ports nature based solutions and port management such as security equipment slurry pumping and so forth Illustrates the design of port terminals Discusses site selection for a new port the factors to be considered and ways to compare different potential port sites Explores asset management and repair of marine structures Includes case studies from around the world examples and practical and user friendly guidelines

**Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies**

Joseph Mathew, C.W. Lim, Lin Ma, Don Sands, Michael E. Cholette, Pietro Borghesani, 2018-11-11 These proceedings include a collection of papers on a range of topics presented at the 12th World Congress on Engineering Asset Management WCEAM in Brisbane 2 4 August 2017 Effective strategies are required for managing complex engineering assets such as built environments infrastructure plants equipment hardware systems and components Following the release of the ISO 5500x set of standards in 2014 the 12th WCEAM addressed important issues covering all aspects of engineering asset management across various sectors including health The topics discussed by the congress delegates are grouped into a number of tracks including strategies for investment and divestment of assets operations and maintenance of assets assessment of assets health conditions risk and vulnerability technologies and systems for management of assets standards education training and certification

**Towards applying a green infrastructure approach in the Gauteng City-Region** Christina Culwick, Samkelisiwe Khanyile, Kerry Bobbins, Stuart Dunsmore, Anne Fitchett, Lerato Monama, Raishan Naidu, Gillian

Sykes, Jennifer van den Bussche, Marco Vieira, 2019-12-11 In the context of heightened climate variability thinking about ways to redesign our urban areas with more sustainable infrastructure solutions is becoming more and more important Green infrastructure GI is emerging as an alternative approach to traditional grey infrastructure in urban planning and development Its emergence can be understood in terms of the growing demand for infrastructure and services increased concerns over natural resource constraints and climate change and the negative impacts associated with traditional approaches to designing and building cities It has been proposed that GI can provide the same services as traditional infrastructure at a similar capital cost while also providing a range of additional benefits However despite the increasing examples of successful urban GI applications traditional infrastructure continues to dominate due to the lack of systematic evidence to support GI implementation As a result there has been an increase in calls from policy and decision makers for a greater evidence base on the benefits of GI as well as for practical guidelines on its implementation Towards applying a green infrastructure approach in the Gauteng City Region is the GCRO s third report in its ongoing research into Green assets and infrastructure The first two reports in this project series were more theoretically grounded and policy oriented whereas this third report is more practical in nature The first report explored the basic principles around GI assessed the extent of ecological features in Gauteng and the way governments in the province think about planning and maintenance of green assets The second report responded to some of the challenges identified in the first report and in particular the importance of government officials and practitioners in exploring how international green infrastructure plans could be applied in the Gauteng context This third report builds on the findings of the aforementioned reports and the project s CityLab series which highlighted the need to build an evidence base as critical for garnering support for and as well as enhancing investment in the GI approach Unlike the more theoretically grounded earlier reports this report comprises four technical sections and practical reflections on how a GI approach could be incorporated into urban planning in the GCR and in other similar urban contexts

**International Infrastructure Management Manual**, 2000      **Proceedings of the 4th Global Summit of Research Institutes for Disaster Risk Reduction** Hirokazu Tatano, Andrew Collins, 2022-11-30 This book presents selected papers by the keynote speakers and other presenters from various disciplines and includes their opinions and evaluations The Fourth Global Summit of Research Institutes for Disaster Risk Reduction 4th GSRIDRR 2019 Increasing the Effectiveness and Relevance of our Institutes sponsored by the Global Alliance of Disaster Research Institutes GADRI and Kyoto University was hosted by and held at the Disaster Prevention Research Institute DPRI Kyoto University Uji Campus Kyoto Japan 13 15 March 2019 The Global Summit series provided a platform for researchers practitioners policy makers and other stakeholders in both government and non governmental institutes involved in disaster risk reduction and resilience to come together to discuss share and exchange ideas It focuses specifically on contributing input to the contextualization and revision of the goals of the 2016 Science and Technology Roadmap to implementation of the Priority

Areas of the Sendai Framework for Disaster Risk Reduction Agenda 2015 2030 with input for GADRI to move forward in its contributions to the worldwide science community The conference comprised an impressive array of global stakeholders whose expertise and experience encompassed the management of knowledge and its application for governments and industries with shared outcomes to bridge science and decision making It enhanced a process to confront new scientific challenges in disaster risk reduction and disaster risk management The conference accomplished the following major goals among others 1 engagement in dialogue on issues related to disaster prevention and contributions to the Science and Technology Roadmap adopted to support the implementation of the Sendai Framework Agenda 2015 2030 2 evaluation of current efforts on global and national involvement in the field of disaster prevention research in relation to the implementation of the Priority Areas of the Sendai Framework for Disaster Risk Reduction 2015 2030 3 assessment of the status of current research knowledge and efforts and research results at the institutional level in each country

Asset Management Decision-Making For Infrastructure Systems Alireza Mohammadi,Luis Amador Jimenez,2022-04-25 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

*Proceedings of the 9th International Conference on Civil Engineering* Eric J. Strauss,2025-08-25 This book comprises the latest collection of peer reviewed research articles presented at the 9th International Conference on Civil Engineering ICOCE 2025 held in Singapore from March 22 to 24 The proceedings focus on the state of the art findings on topics of civil engineering and related fields Engineering solutions are treated from a global perspective Highlighted fields of inquiry include concrete technology computer simulations construction and engineering management building materials and architecture and urban planning The authors outline solutions to physical natural resource and economic problems in many different contexts This volume consists of refereed articles authored by a wide variety of international researchers and practitioners from many perspectives discussing current research solutions that involve problems in civil and environmental engineering Examples that cover municipal development transportation engineering pollution control and public safety are prominently featured The chapters contain a diverse collection of applications that appeal to individuals with all levels of knowledge and interest in the important issues relevant to international engineering

**Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated**

**Vision** Robby Caspeelee, Luc Taerwe, Dan M. Frangopol, 2018-10-15 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28-31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

**Ethical Water Stewardship** Ingrid Leman Stefanovic, Zafar Adeel, 2020-10-20 This interdisciplinary book brings philosophers and non philosophers to the table to address questions of water ethics specifically in terms of how moral questions inform decision making around water security at local national and international scales Water security which pertains to the experience of assured access to clean water is a broad concept that intersects human rights politics economics law legislation public health trade agriculture and energy Decisions made at each of these intersection points have ramifications for human well being especially for the populations that are marginalized in a societal and political sense In this book the ethical dimensions of decision making at those intersection points are explored and real world examples are used to tease out some key insights It charts how ethical consideration can help shape a future in which everyone will be water secure

Routledge Handbook of Urban Water Governance Thomas Bolognesi, Francisco Silva Pinto, Megan Farrelly, 2022-09-01 This handbook provides a comprehensive state of the art overview of urban water governance Of the many growing challenges presented by rapid urbanization water governance is a critical one and while urban water governance is now regarded as a critical field of research the literature is fragmented For the first time this handbook brings together urban water governance research containing interdisciplinary contributions from established and emerging scholars practitioners and policymakers It addresses the key questions of how urban water governance works how is it shaped and what the impacts are The handbook's structure offers a progressive entry into the complexity of urban water governance Starting with technical dimensions the handbook addresses supply and demand wastewater and sanitation It then considers regulation and economic factors examining water utilities and services Political processes and the actors involved are addressed and the handbook finishes with a part focusing on governance and sustainability where chapters address critically



important topics such as access to water water safety and water security This handbook is essential reading for students scholars and professionals interested in urban water governance urban studies and water resource management and sustainability more broadly Managing County Assets and Liabilities in Kenya Mihaly Kopanyi,Abdu Muwonge,2022-10-07 This book helps readers understand the basic concept of asset management explains systems tools and procedures and provides models and guidance for strategically managing assets establishing systems and asset registers and applying life cycle based asset operation and maintenance

**Physical Asset Management** Dharmen Dhaliah,2016-10-17 A holistic approach to managing physical assets has become a top priority for organizations both in the public and private sectors For years to come considerable amount of funds is being committed to invest in physical assets and asset management practitioners are honing their skills to be part of the huge undertaking But there is one key oversight how will organizations cope with the implementation of a holistic physical asset management approach In many organizations there exists a lack of collaboration and alignment to achieve organizational strategic goals Why Organizational silos the very silos that must be major contributors for the successful implementation of the holistic physical asset management approach Physical Asset Management An Organizational Challenge explores how the physical asset management philosophy fits within an organization details the challenges it faces and reviews the different functional areas dealing with physical assets Existing gaps and overlaps are uncovered exposing those that hinder collaboration and alignment Written with asset management practitioners in mind as well as everyone involved with physical assets Physical Asset Management An Organizational Challenge and its case studies will aid organizations to be better prepared when they embark on the journey of holistic physical asset management

**Engineering Assets and Public Infrastructures in the Age of Digitalization** Jayantha P. Liyanage,Joe Amadi-Echendu,Joseph Mathew,2020-08-17 This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely relevant and practically important in the modern digital era towards safer cost effective efficient and secure engineered assets such as production and manufacturing plants process facilities civil structures equipment machinery and infrastructure It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors The professional coverage of the book includes Asset management in Industry 4 0 Standards and models Sustainable assets and processes Life cycle perspectives Smart and safer assets Applied data science Workplace safety Asset health Advances in equipment condition monitoring Critical asset processes and Innovation strategy and entrepreneurship The breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

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