

Industrial Megaprojects Concepts Strategies And P

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Routledge Handbook of Integrated Project Delivery Derek Walker 2019-08-13 The concept of integrated project delivery (IPD) has evolved as a result of the need for highly expert teams of people to collaborate to deliver extremely complex projects, to manage expectations about delivery speed, changes in governance standards and to take advantage of and manage expectations raised by rapid advances in technology. All this demands effective change management. This is the first Handbook to contextualise and thematically explore the concept with an emphasis on rigorous practical and theoretical validation. The Handbook is divided into five sections, each with a focus on several interconnected themes including: An introduction to IPD concepts. The foundational elements and characteristics of IPD. People, culture and collaboration as key ingredients to successful and effective IPD. Technology and process aspects of relational contracting forms such as IPD. New and relevant perspectives to IPD that have received scant attention to date. Aspects and emerging issues that are rarely consciously considered in traditional project delivery due to the commercial imperative that drives firms and client organisations. The Handbook offers both discussions of these key themes, and also in-depth research into construction and other industry project procurement and delivery that spans decades. In addition, the Handbook presents 'best' and 'better' practice, but also includes insights into cutting-edge experimental developments in technology and practices where proof of concept is currently being developed into emerging practice. Contributing authors in this Handbook collaborate with the co-editors to draw together an integrated set of chapters that align to deliver a coherent narrative of the IPD concept. It is an invaluable reference for practitioners and academics alike, and useful as core course content for numerous degree programs of study and professional development courses.

Today's Space Elevator Peter Swan 2019-09-22 In the last year, the International Space Elevator Consortium assessed that basic technological needs can be met with current capabilities: and, each segment of the Space Elevator Transportation System is ready for engineering validation. Because of the availability of a new material as a potential Space Elevator tether, the community strongly believes that a Space Elevator will be initiated in the near term. Included in the book is a series of appendices that are tremendous references to the status of the space elevator today. Included are a lexicon of space elevator terms, over 750 references in the bibliography, short descriptions of eight ISEC year-long studies and two IAA 4-year studies on space elevators, as well as a summary of over 20 Architectural Notes covering the development of space elevator technologies.

Handbook of Research on Leveraging Risk and Uncertainties for Effective Project

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Management Raydugin, Yuri 2016-11-29 The proper understanding and managing of project risks and uncertainties is crucial to any organization. It is of paramount importance at all phases of project development and execution to avoid poor project results from meager economics, overspending, reputation and environmental damage, and even loss of life. The Handbook of Research on Leveraging Risk and Uncertainties for Effective Project Management is a comprehensive reference source for emerging perspectives of managing risks associated with the execution and development of projects. Highlighting innovative coverage written by top industry specialists, such as complexity theory, psychological bias and risk management fallacies, probabilistic risk analysis, and various aspects of project decision making, this book is ideally designed for project and risk managers, project engineers, cost estimators, schedulers, safety and environmental protection specialists, corporate planners, financial and insurance specialists, corporate decision makers, as well as academics and lecturers working in the area of project management and students pursuing PMP, PMI-RMP, ISO 31000, etc. certification.

Relationship Management and the Management of Projects Hedley Smyth 2014-08-27 Relationship Management and the Management of Projects is a guide to successfully building and managing relationships as a project manager and in the project business. Relationship management is a core skill for any project business to develop capabilities and manage the interface with projects, providing guidance to project managers as they negotiate with business partners and coordinate between business functions. Whatever the structures and procedures an organization has and whatever the project management tools and techniques, they are only as good as the hands they are in. Yet relationship management, though a well-established discipline, is rarely applied to the process-driven world of project management. This book is a much-needed guide to the process of enhancing these skills to boost firm performance, team performance and develop collaborative practices. Hedley Smyth guides you through the processes of relationship management examining the theory and practice. This book highlights the range of options available to further develop current practices to ensure a successful relationship management in all stages of a project's lifecycle. Relationship Management and the Management of Projects is valuable reading for all students and specialists in project management, as well as project managers in business, management, the built environment, or indeed any industry.

Product and Process Design Jan Harmsen 2018-05-22 Product and Process Design: Driving Innovation is a comprehensive textbook for students and industrial professionals. It treats the combined design of innovative products and their innovative manufacturing processes, providing specific methods for BSc, MSc, PDEng and PhD courses. Students, industrial innovators and managers are guided through all design steps in all innovation stages (discovery, concept, feasibility, development, detailed engineering, and implementation) to successfully obtain novel products and their novel processes. The authors' decades of innovation experience in industry, as well as in teaching BSc, MSc, and post-academic product and process design courses, thereby including the latest design publications, culminate in this book.

Industrial Megaprojects Edward W. Merrow 2011-05-03 Avoid common pitfalls in large-scale projects using these smart strategies Over half of large-scale engineering and construction projects—off-shore oil platforms, chemical plants, metals processing, dams, and similar projects—have miserably poor results. These include billions of dollars in overruns, long delays in design and construction, and poor operability once finally completed. Industrial Megaprojects gives you a clear, nontechnical understanding of why these major projects get into trouble, and how your company can prevent hazardous and costly errors when undertaking such large technical and management challenges. Clearly explains the underlying causes of over-budget, delayed, and unsafe megaprojects Examines

effects of poor project management, destructive team behaviors, weak accountability systems, short-term focus, and lack of investment in technical expertise Author is the CEO of the leading consulting firm for evaluating billion-dollar projects Companies worldwide are rethinking their large-scale projects. Industrial Megaprojects is your essential guide for this rethink, offering the tools and principles that are the true foundation of safe, cost-effective, successful megaprojects.

Extracting Innovations Martin J. Clifford 2018-06-13 This book considers the most contemporary innovations propelling the extractive industries forward while also creating new environmental and social challenges. The socio-ecological fabric of innovation in the extractive industries is considered through an integrative approach that brings together engineers, natural scientists, and social scientists—academics and practitioners—giving an empirically grounded and realistic evaluation of the innovations in this sector. It synthesizes a series of questions including:

Advanced Methodologies and Technologies in Business Operations and Management Khosrow-Pour, D.B.A., Mehdi 2018-09-14 Businesses consistently work on new projects, products, and workflows to remain competitive and successful in the modern business environment. To remain zealous, businesses must employ the most effective methods and tools in human resources, project management, and overall business plan execution as competitors work to succeed as well. *Advanced Methodologies and Technologies in Business Operations and Management* provides emerging research on business tools such as employee engagement, payout policies, and financial investing to promote operational success. While highlighting the challenges facing modern organizations, readers will learn how corporate social responsibility and utilizing artificial intelligence improve a company's culture and management. This book is an ideal resource for executives and managers, researchers, accountants, and financial investors seeking current research on business operations and management.

Pesquisa em Desenvolvimento, Ambiente e Conflitos Jalcione Almeida 2020-04-20 Este livro reflete um esforço de investigação nos últimos 10 anos do grupo de pesquisa Tecnologia, Meio Ambiente e Sociedade - Temas (www.ufrgs.br/temas). Nele são empreendidas análises com abordagens no campo da Socioantropologia, com referenciais teóricos e empíricos variados. Perpassando todos os textos, são notórias as reflexões em torno das possibilidades de apreensão de questões que se situam na relação Sociedade - Natureza e que mobilizam o debate sobre a viabilidade de grandes projetos de desenvolvimento.

The Front-end of Large Public Projects Terry M. Williams 2022-06-06 Large public projects represent major complex investment and whilst there has been much written about how to develop, manage and deliver such projects, practice still does not match up with expectations. In this book, researchers from the Norwegian Concept Research Programme explore the paradoxes between theory and practice in collaboration with experts in the field of project governance. This book delves into the reality of large public projects, to show how they can be managing effectively and efficiently, recognising the realities of their context. It offers a range of practical conclusions as to the paradoxes of the governance and management of public projects. The international spectrum of authors draw their examples from the UK, Norway, Canada, France, Australia and the Netherlands. Bridging the gap between research, theory and practice, this book will benefit academics and researchers in the field of project management and corporate governance as well as those in the practice of public project governance, civil servants and industry practitioners.

A Practical Guide to Successful Construction Projects Arent van Wassenauer 2017-04-21 Written by experienced and innovative projects lawyer Arent van Wassenauer, this book explains what the critical

success factors are for construction projects to be completed on time, within everyone's budget, to the right quality, with all stakeholders satisfied and without disputes. In so doing, van Wassenauer discusses how such projects could be structured, tendered for, executed and completed, and what legal and non-legal mechanisms are available to achieve success in construction projects. Using examples of real projects, *A Practical Guide to Successful Construction Projects* provides tools for those in leading and managerial positions within the construction industry to change - where necessary - their usual operational methods into methods which are aimed at achieving project success.

Tensions and paradoxes in temporary organizing Joseph Lampel 2020-09-17 This volume brings together empirical and conceptual papers that investigate the Tensions and Paradoxes in Temporary Organizing. Temporary organizing is a widespread phenomenon that continues to grow in importance, and reflects the uncertainty resulting from competition in globalized markets.

Project Management Stewart R. Clegg 2020-10-12 Project management is an essential life and workplace skill that everyone must develop. Following the popular style and format of other textbooks by Stewart Clegg, this brand new co-authored textbook on project management provides a much needed European perspective to the subject. Drawing on the latest research and practice, the authors guide students on an active learning journey through the project lifespan, promoting a critical and reflexive approach to studying project management, as well as one that creates value for all project stakeholders and emphasizes people and not just process. Case studies and examples discussed in the text cover a wide range of projects from large to smaller across different industries and sectors, both public and private, including: megaprojects (HS2); mega events (Olympics); political projects (Brexit); health-related project implementation (LEAN); tech-related projects (Google); building and restoration projects (housing/Sagrada Familia); and arts and cultural projects (European Capital of Culture). Incorporating a host of learning features both in chapters and via the supporting online resources, this textbook is essential reading for all students/managers completing a course unit in project management at either undergraduate or postgraduate level.

Handbook on Transport and Urban Planning in the Developed World Michiel C.J. Bliemer 2016-02-26 This Handbook provides comprehensive coverage of all of the major factors that underpin our understanding of urban and transport planning in the developed world. Combining urban and transport planning in one volume, the chapters present the state of the art as well as new research and directions for the future. The contributions from leading international academics at the forefront of their fields consider transport and urban planning from a number of different perspectives including historical, policy and strategy dimensions, appraisal and financing of options, planning and design of urban areas and the management of transport and urban systems. Examples and practical guides from the developed world are included along with a detailed discussion of the emerging issues. The Handbook provides an essential reference to all of the key points on the topic as well as signalling areas of concern and future research paths. Academics, researchers, students, policymakers and practitioners will find it a constant source of information and guidance.

Project Management for Engineering, Business and Technology John M. Nicholas 2020-08-02 Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team

building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors.

Leading Megaprojects Mounir A. Ajam 2020-01-08 The performance of megaprojects is questionable, and a large percentage of them fail in one dimension or another. The challenges that contribute to these failures are known. Then why do these projects still fail at a high rate? *Leading Megaprojects: A Tailored Approach* examines the challenges facing megaprojects and, more importantly, successes in delivering megaprojects. To close the performance gaps in megaproject deliveries, the book presents a customizable model that professionals and organizations can use to increase the chance of successful project delivery. To illustrate the model, it uses examples and case studies, primarily from capital projects, with engineering and construction components. The book also explains how the approach can be applied to all projects, regardless of industry or domain. The book emphasizes the role of leadership because it takes the point of view that megaprojects cannot be successful without great leadership due to their massive size, complexity, number of parties and stakeholders involved, and cost, among other vital factors. Leaders can define the path for a megaproject to guide seasoned managers and project managers to successful closure. The tailored approach is based on a stage-gate project life cycle model, which covers projects from concept to success. However, it is not limited to a purist form of traditional project management. It is a tailored methodological approach, with an emphasis on leading the work, end-to-end, at the project level, along with the management of every stage of the project. Also, it presents the integration of the business, product delivery, and operations management into a cohesive approach. The book concludes with an in-depth simulation showing how the model is can be tailored to deliver a megaproject successfully.

Market Management and Project Business Development Hedley Smyth 2014-09-25 *Market Management and Project Business Development* is a guide to the theory of marketing and selling projects in business, demonstrating how to secure and deliver value, and improve performance in profitable ways. By providing a set of key principles and guidelines to business-to-business (B2B) marketing, construction project management expert Hedley Smyth demonstrates how to use marketing and business development principles to maximise the value of a project. The book takes a step-by-step approach by dealing with each stage in a project's lifecycle in turn, covering a range of approaches including the marketing mix, relationship marketing and its project marketing variant, entrepreneurial marketing and the service-dominant logic. This book is valuable reading for all students and specialists in project management, as well as project managers in business, management, the built environment, or indeed any industry.

Global Megaprojects Virginia A. Greiman 2022-11-18 GLOBAL MEGAPROJECTS The definitive guide

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to international megaprojects from an undisputed authority in the field In *Global Megaprojects: Lessons, Case Studies, and Expert Advice on International Megaproject Management*, distinguished international megaproject researcher and consultant Virginia A. Greiman delivers a comprehensive and incisive discussion of a key topic in global infrastructure development: the international megaproject. In the book, readers will find indispensable guidance and insights from experienced megaproject experts, as well as over 20 case studies highlighting practical solutions to common and pressing issues faced by project stakeholders around the world. This book was written to demonstrate that megaprojects can and have accomplished major economic, social, and technical advancements thought impossible but achieved by successfully confronting the challenges of the time. This book offers solutions and prescriptions for megaproject participants to overcome the complex challenges presented by these projects. It incorporates the latest evidence-based theory and a wealth of practical experience and provides a truly international perspective, showcasing viewpoints from a diverse collection of regions, cultures, and industries. *Global Megaprojects* also presents: Thorough introductions to megaprojects and their lifecycles, including the megaproject ecosystem and the world's emerging megaprojects In-depth examinations of megaproject finance and economics, including innovation and value-driven program management Extensive explorations of complex project leadership, including the characteristics of uncertainty, complex projects, and cross-cultural dynamics Comprehensive discussions of megaproject implementation management, including global delivery methodologies and strategic objective alignment *Global Megaprojects: Lessons, Case Studies, and Expert Advice on International Megaproject Management* will earn a place in the libraries of project managers, policymakers, academics, contractors, engineers, suppliers, investors, and sponsors of large international projects.

Scale-Up Processes Jamal Chaouki 2021-09-20 Common scale-up methods are conventional where the blind piloting is essential. This imposes huge investment and leads to failures mostly in solid processing. However, the limitations of resources, current shortcomings, short time-to-market demand are forced companies to minimize piloting. With these situations in mind, current digitalization outlook and computational facilities, we proposed and developed a novel iterative scale up method with case studies which highly expedites the process innovation through the following key sequences:

Ensuring Quality in Professional Education Volume II Karen Trimmer 2019-01-11 This book examines quality teaching in professional education in the fields of engineering and international knowledge structures. The second of a two-volume series, the editors and contributors structure the book around case studies which highlight the elements constituting good practice within professional education. While there is no one specific route to prepare well-qualified professionals, this volume explores the decisions the academics responsible for delivering this education make to ensure quality curricula. Ultimately, the key to effective preparations rests with the value employers place on the focus, emphasis and balance between the academic and practical in relation to their own expectations for skills that graduates must have. The second volume in this collection will appeal to students and scholars of professional pedagogy, and engineering pedagogy more specifically.

Benefits Realization Management Carlos Eduardo Martins Serra 2016-10-14 Benefits realization management (BRM) is a key part of governance, because it supports the strategic creation of value and provides the correct level of prioritization and executive support to the correct initiatives. Because of its relevance to the governance process, BRM has a strong influence over project success and is a link between strategic planning and strategy execution. This book guides portfolio, program, and project managers through the process of benefits realization management so they can maximize business value. It discusses why and how programs and projects are expected to enable value creation, and it explains

the role of BRM in value creation. The book provides a flexible framework for: Translating business strategy drivers into expected benefits and explains the subsequent composition of a program and project portfolio that can realize expected benefits Planning the benefits realization expected from programs and projects and then making it happen Keeping programs and projects on track Reviewing and evaluating the benefits achieved or expected against the original baselines and the current expectations. To help project, program, and portfolio managers on their BRM journey, as well as to support business managers in executing business strategies, the book identifies key organizational responsibilities and roles involved in BRM practices, and it provides a simple reference that can be mapped against any organizational structure. A detailed and comprehensive case study illustrates each phase of the BRM framework as it links business strategy to project work, benefits, and business value. Each chapter ends with a series questions that provide a BRM self-assessment. The book concludes with a set of templates and detailed instructions to ensure successful deployment of BRM.

Implementing Project and Program Benefit Management Kenn Dolan 2018-12-07 One of the most difficult, yet important, questions regarding projects is "What advantages will this project create for the investors and key stakeholders?" Projects and programs should be treated as investments. This means that the focus of projects shifts from delivering within the triple constraints (time-cost-quality) towards some of the more fundamental questions: What is the purpose of this investment? What are the specific advantages expected? Are these benefits worth the investment? Implementing Project and Program Benefit Management is written for executives and practitioners within the portfolio, program, and project environment. It guides them through the important work that must be addressed as the investment progresses towards the realization of benefits. The processes discussed cover the strategic elements of benefits realization as well as the more detailed requirements, which are the domain of the program delivery teams and the operational users. Using real cases to explain complex situations, operational teams and wider groups of stakeholders, including communities affected by infrastructure projects, will be able to engage in the conversation with the sponsors and delivery teams. Covering an area of program and project management that is rapidly becoming more widely valued, this book blends theory with practical experience to present a clear process flow to managing the benefits life cycle. Best practices are defined, and pitfalls and traps are identified to enable practitioners to apply rigor and structure to this crucial discipline.

The Oxford Handbook of Megaproject Management Bent Flyvbjerg 2017 This handbook provides state-of-the-art scholarship in the emerging field of megaproject management. The 25 chapters cover all aspects of megaproject management, from front-end planning to actual project delivery, including how to deal with stakeholders, risk, finance, complexity, innovation, governance, ethics, project breakdowns, and scale itself.

Decision-making on Mega-projects Hugo Priemus 2008-01-01 It will be useful for those experienced and senior professionals who are charged with authorizing and controlling projects. Recommended. P.F. Rad, Choice Building on the seminal work of Bent Flyvbjerg, this book is a collection of expert contributions that will prove essential to anyone wanting to understand why mega-projects go wrong and how they can be made to work better. Professor Sir Peter Hall, University College London, UK This book offers a refreshing and fascinating look at mega-projects from the perspective of public evaluation and planning. With the changing role of the public sector in planning and implementing large-scale projects and a subsequent strong emergence of private public modes of operation, mega-projects have become a problematic phenomenon. This volume is a major source of information and reference. It provides the reader with unique insights and caveats in mega-projects planning. Peter Nijkamp, VU University Amsterdam, The Netherlands This book enlarges the understanding of decision-making on

mega-projects and suggest recommendations for a more effective, efficient and democratic approach. Authors from different scientific disciplines address various aspects of the decision-making process, such as management characteristics and cost benefit analysis, planning and innovation and competition and institutions. The subject matter is highly diverse, but certain questions remain at the forefront. For example, how do we deal with protracted preparation processes, how do we tackle risks and uncertainties, and how can we best divide the risks and responsibilities among the private and public players throughout the different phases of the project? Presenting a state-of-the-art overview, based on experiences and visions of authors from Europe and North America, this unique book will be of interest to practitioners of large-scale project management, politicians, public officials and private organisations involved in mega-project decision-making. It will also appeal to researchers, consultants and students dealing with substantial engineering projects, complex systems, project management and transport infrastructure.

The Single-Minded Project Martin Price 2016-03-03 The behaviour of people and their organisation are the primary drivers of a project's pace of progress. Methodology, tools and techniques are vital but subordinate to human endeavour; if only because their selection, deployment and application entirely depend on the abilities of the project players and their organisation. Performance ultimately rests on human and organisational behaviour: expressed by the players' experience, professional ability, resolve, dialogue and collaboration. Fresh approaches and methods help practitioners to address this reality productively. This book is written under nine headings: collaboration; able people; strength; connections; rigour; pace; persistence; adaptation; and maturity. The Single-Minded Project offers a new and convincing appreciation of project management that will harness players and their organisation. It recognises that at its heart, the management and leadership of a project regime relies on the choices, behaviours and decisions of its players and the organisation's freedom of action. It addresses the urgency of the project (the need for swiftness), coupled with the kind and degree of diligence (the need for rigour in the choice and management of method): referring to its Pace of Progress. The success of a project very much depends on the pace at which it is conducted to then deliver value. Projects find themselves in territory where methodology, tools and techniques are of little help. The Single-Minded Project fills that gap and more.

The Oxford Handbook of Megaproject Management Bent Flyvbjerg 2017-04-13 The Oxford Handbook of Megaproject Management provides state-of-the-art scholarship in the emerging field of megaproject management. Megaprojects are large, complex projects which typically cost billions of dollars and impact millions of people, like building a high-speed rail line, a megadam, a national health or pensions IT system, a new wide-body aircraft, or staging the Olympics. The book contains 25 chapters written especially for this volume, covering all aspects of megaproject management, from front-end planning to actual project delivery, including how to deal with stakeholders, risk, finance, complexity, innovation, governance, ethics, project breakdowns, and scale itself. Individual chapters cover the history of the field and relevant theory, from behavioral economics to lock-in and escalation to systems integration and theories of agency and power. All geographies are covered - from the US to China, Europe to Africa, South America to Australia - as are a wide range of project types, from "hard" infrastructure to "soft" change projects. In-depth case studies illustrate salient points. The Handbook offers a rigorous, research-oriented, up-to-date academic view of the discipline, based on high-quality data and strong theory. It will be an indispensable resource for students, academics, policy makers, and practitioners.

International Handbook on Mega-Projects Hugo Priemus 2013-11-29 Providing crucial background information for those who want to understand decision-making processes on large transport infrastructure projects, this fascinating Handbook will prove an important source of information for

academics, researchers and students

Even More Schedule for Sale Geoff Ryan P.M.P. 2017-08-25 *Even More Schedule for Sale* is the second guidebook by Geoff Ryan on the subject of construction productivity for industrial projects. It describes the step-by-step application of the industry's best practice of advanced work packaging and ties it into the logic from the first book, *Schedule for Sale*, on workforce planning. As the name suggests, there is even more schedule to be gained over just getting the construction team organized (workforce planning) by aligning engineering and procurement deliverables with the needs of construction (advanced work packaging). This transition of workforce planning into advanced work packaging is the bigger picture of construction productivity and the natural evolution of the road map that leads to the right stuff, ending up in the right place, in the right sequence.

Innovative Production And Construction: Transforming Construction Through Emerging Technologies Peng Wu 2019-05-03 Throughout the 38 chapters, this must-have volume outlines essential information about the implementation of emerging technologies, from building information modeling and 3D printing, to life cycle assessment and information technology in construction and engineering projects. It covers practical case studies to demonstrate the implementation of emerging technologies in a compact style, ensuring that practitioners can adopt these methods to realize immediate benefits in productivity, safety and performance improvement.

The Governance of Infrastructure Kai Wegrich 2017-03-02 Infrastructure only tends to be noticed when it is absent, declining, or decrepit, or when enormous cost overruns, time delays, or citizen protests make the headlines. If infrastructure is indeed a fundamental driver of economic growth and social development, why is it so difficult to get right? In addressing this perennial question, this volume—the fourth edition in an annual series tackling different aspects of governance around the world—makes the case for a governance perspective on infrastructure. This implies moving beyond rational economic analysis of what should be done towards an analysis of the political, institutional, and societal mechanisms that shape decision-making about infrastructure investment, planning, and implementation. Engaging with theories from sociology, political science, and public administration, and drawing on empirical analyses bridging OECD and non-OECD countries, the contributions to this volume dissect the logics of infrastructure governance in a novel way, providing timely analyses that will enrich both scholarly and policy debates about how to get infrastructure governance right.

View from City Hall Patricia De Lille 2017-09-07 The 21st century belongs to cities, especially those of a rapidly urbanising Africa. South Africa experienced a historic change in city government in 2016, when three major metros changed political leadership. The realities that city governments must confront range from dynamic population growth to the potential presented by breakthroughs in digital innovations. In *View from City Hall* Patricia de Lille and Craig Kesson scrutinise the complexities of governing a growing city, including what it means to run a modern city with a particular historical context like Cape Town and the choices that must be made for a better future.

The 10th International Conference on Engineering, Project, and Production Management Kriengsak Panuwatwanich 2020-03-03 This book gathers the proceedings of the EPPM 2019 conference, and highlights innovative work by researchers and practitioners active in various industries around the globe. Recent advances in science and technology have made it possible to seamlessly connect and integrate various elements of engineering systems, and opened the door for innovations that have transformed how we live and work. While these developments have yielded enhanced efficiency and numerous improvements in our current practices, the problems caused by the increased

complexity of these integrated systems can be extremely difficult. Accordingly, solving these problems involves applying cross-disciplinary expertise to address the heterogeneity of the various elements inherent in the system. These proceedings address four main themes: (I) Smart and Sustainable Construction, (II) Advances in Project Management Practices, (III) Toward Safety and Productivity Improvement, and (IV) Smart Manufacturing, Design, and Logistics. As such, they will be of interest to and valuable to researchers and practitioners in a range of industries seeking an update on the translational fields of engineering, project, and production management.

Joint Public Procurement and Innovation Gabriella Margherita Racca 2020-02-12 Innovation in public procurement is essential for sustainable and inclusive growth in an increasingly globalized economy. To achieve that potential, both the promises and the perils of innovation must be investigated, including the risks and opportunities of joint procurement across borders in the European Union and the United States. This in-depth research investigates innovation in public procurement from three different perspectives. First, leading academics and practitioners assess the purchase of innovation, with a particular focus on urban public contracting in smart cities involving meta-infrastructures, public-private partnership arrangements and smart contracts. A second line of inquiry looks for ways to encourage innovative suppliers. Here, the collected authors draw on emerging lessons from the US and Europe, to explore both the costs and the benefits of spurring innovation through procurement. A third perspective looks to various innovations in the procurement process itself, with a focus on the effects of joint and cross-border procurement in the EU and US landscapes. The chapters review new technologies and platforms, the increasingly automated means of selecting suppliers, and the related efficiencies that “big data” can bring to public procurement. Expanding on research in the editors’ prior volume, *Integrity and Efficiency in Sustainable Public Contracts: Balancing Corruption Concerns in Public Procurement Internationally* (Bruylant 2014), this volume builds on a series of academic conferences and exchanges to address these issues from sophisticated academic, institutional and practical perspectives, and to point the way to future research on the contractual models that are emerging from new procurement technologies.

Social Media for Project Management Johan Ninan 2022-11-17 The number of projects is increasing worldwide as traditional and repetitive tasks are carried out through automation. Projects being temporary and unique while being adopted globally across sectors presents a challenge for the effective management of environmental, economic, and social parameters. Projects are people centric and require the effective management of internal and external stakeholders. In the modern age, social media is seen as a tool that connects people across the world having significant implications on everyone’s daily life. Social media is used for different purposes and encompasses multiple affordances as these are often free and also bring together people from different walks of life who tend to use them differently. However, the role of social media in managing projects is still under explored. In this edited book, multiple authors working on the application of social media in projects come together to craft an agenda for the future. First, the use of social media for internal stakeholders, such as managers and engineers, are discussed. Following this, the use of social media for external stakeholders, such as communities and project affected persons are discussed. Finally, the guidelines for education using social media and research using social media is discussed. Thus, the book brings together multiple authors to discuss how social media can be used in project settings to facilitate interactions and strategic conversations across hierarchical levels and geographic boundaries for diverse goals. The book is a valuable resource for all project management academics, researchers and practitioners who are interested in learning about the application of social media in project settings.

Innovation Project Management Harold Kerzner 2019-09-04 Actionable tools, processes and metrics for

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successfully managing innovation projects. Conventional project management methods are oftentimes insufficient for managing innovation projects. Innovation is lost under the pre-determined scope and forecasted environments of traditional project management. There is tremendous pressure on organizations to innovate, and the project managers responsible for managing these innovation projects do not have the training or tools to do their jobs effectively. Innovation Project Management provides the tools, insights, and metrics needed to successfully manage innovation projects—helping readers identify problems in their organization, conceive elegant solutions, and, when necessary, promote changes to their organizational culture. There are several kinds of innovation—ranging from incremental changes to existing products to wholly original processes that emerge from market-disrupting new technology—that possess different characteristics and often require different tools. Best-selling author and project management expert Harold Kerzner integrates innovation, project management, and strategic planning to offer students and practicing professionals the essential tools and processes to analyze innovation from all sides. Innovation Project Management deconstructs traditional project management methods and explains why and how innovation projects should be managed differently. This invaluable resource: Provides practical advice and actionable tools for effectively managing innovation projects Offers value-based project management metrics and guidance on how to establish a metrics management program Shares exclusive insights from project managers at world-class organizations such as Airbus, Boeing, Hitachi, IBM, and Siemens on how they manage innovation projects Explores a variety of types of innovation including co-creation, value-driven, agile, open versus closed, and more Instructors have access to PowerPoint lecture slides by chapter through the book's companion website Innovation Project Management: Methods, Case Studies, and Tools for Managing Innovation Projects is an essential text for professional project managers, corporate managers, innovation team members, as well as students in project management, innovation and entrepreneurship programs.

The Governance of Energy Megaprojects Benjamin K. Sovacool 2013-07-01 Ô Benjamin Sovacool and Christopher Jon Cooper have produced an astonishing and well-written book, based on extensive original research in twelve countries. They explore the technical, social, political and economic dimensions of four energy megaprojects. The large scale of megaprojects always appears to complicate the decision-making process and often causes failures. Megaprojects may even reinforce corruption and erode democracy. It highlights that today's experiences can be explained by statements by Aristotle and Einstein who argue, both in their own way, that is always wise to take the limits of size into account and to reduce the size of projects, wherever this is possible. For everybody involved in megaprojects, this book must be read! Ô Ð Hugo Priemus, Delft University of Technology, The Netherlands Based on extensive original research, this book explores the technical, social, political, and economic dimensions of four Asian energy megaprojects: a regional natural gas pipeline network in Southeast Asia, a series of hydroelectric dams on the island of Borneo, an oil pipeline linking Europe with the Caspian Sea, and a very large solar energy array in the Gobi desert. This book investigates why energy megaprojects fail to deliver their promised benefits. It offers the first comprehensive assessment of the complicated dynamics driving Ð and constraining Ð megaprojects initiated in the rapid scramble for energy resources and efforts to improve energy security. The authors approach the assessment of megaprojects from a socio-technical angle, emphasizing broad issues of political leadership, regulation, financing, interest group opposition and environmental impact, as well as conventional technological factors such as engineering design and project management. The Governance of Energy Megaprojects will prove insightful for academics concerned about energy policy, energy security, environmental impact and technology assessment. But the book should prove equally compelling to those engaged in the practical management and implementation of large-scale energy projects anywhere in the world.

Megaproject Management Virginia A. Greiman 2013-06-17 Project management lessons learned on the Big Dig, America's biggest megaproject, by a core member responsible for its daily operations In Megaproject Management, a central member of the Big Dig team reveals the numerous risks, challenges, and accomplishments of the most complex urban infrastructure project in the history of the United States. Drawing on personal experience and interviews with project engineers, executive oversight commission officials, and core managers, the author, a former deputy counsel and risk manager for the Big Dig, develops new insights as she describes the realities of day-to-day management of the project from a project manager's perspective. The book incorporates both theory and practice and is therefore highly recommended to policymakers, academics, and project management practitioners. Focusing on lessons learned, this insightful coursebook presents the Big Dig as a massive case study in the management of risk, cost, and schedule, particularly the interrelation of technical, legal, political, and social factors. It provides an analysis of the difficulties in managing megaprojects during each phase and over the life span of the project, while delivering useful lessons on why projects go wrong and what can be done to prevent project failure. It also offers new ideas to enhance project management performance and innovation in our global society. This unique guide: Defines megaproject characteristics and frameworks Reviews the Big Dig's history, stakeholders, and governance Examines the project's management scope, scheduling, and cost management—including project delays and cost overruns Analyzes the Big Dig's risk management and quality management Reveals how to build a sustainable project through integration and change introduction

The Making of an Expert Engineer James Trevelyan 2014-09-22 This book sets out the principles of engineering practice, knowledge that has come to light through more than a decade of research by the author and his students studying engineers at work. Until now, this knowledge has been almost entirely unwritten, passed on invisibly from one generation of engineers to the next, what engineers refer to as “experience”. This is a book for all engineers. It distils the knowledge of many experts in one volume. The book will help engineers enjoy a more satisfying and rewarding career and provide more valuable results for their employers and clients. The book focuses on issues often seen as “non-technical” in the world of engineering, yet it shows how these issues are thoroughly technical. Engineering firms traditionally have sought expert advice on these aspects from management schools, often regarding these aspects of engineering practice as something to do with psychology or organisational behaviour. The results are normally disappointing because management schools and psychologists have limited insight and understanding of the technical dimensions in engineering work. Little if any of the material in this book can be obtained from management texts or courses. Management schools have avoided the technical dimension of workplace practices and that is precisely what characterises engineering practice. The technical dimension infuses almost every aspect of an engineer’s working day and cannot be avoided. That’s why this book is so necessary: there has not yet been any authoritative source or guidance to bridge the gap between inanimate technical issues and organisational behaviour. This book fills this gap in our knowledge, is based on rigorous research, and yet is written in a style which is accessible for a wide audience.

Designing Intelligent Construction Projects Michael Frahm 2022-08-15 Designing Intelligent Construction Projects Explore the potential impact of management cybernetics, lean methodologies, and digitalization on the construction sector As a heavily asset-driven industry, construction is at the crossroads of a transformation. Digitalization has already begun and is acting as a beacon. Intelligently designed project organizations and systems must follow to make construction projects fit for the future. In *Designing Intelligent Construction Projects*, a distinguished project manager and engineer and a lean and integrated management system manager deliver a comprehensive exploration of the fundamentals of management cybernetics, lean management in general and lean construction in particular, and

construction-oriented digital tools. In the book, the authors describe how these disciplines can be combined to successfully transform construction projects. Preliminary discussions of management cybernetics and lean management are followed by specific discussions of how these topics can be adapted to the construction industry. The book connects the principles of management cybernetics and digitalization, accessibly describing the potential impact of digitalization on construction projects. Readers will also find: Illuminating case study material that highlights how change management methodologies, game theory, and collaborative contractual design can deliver results Strategies for achieving lean, viable, and digitally oriented construction leadership fit for the modern market Rigorous discussions of the current and potential future impact of digitization on construction firms Perfect for built environment professionals and practitioners, *Designing Intelligent Construction Projects* will also earn a place in the libraries of postgraduate and advanced undergraduate students of civil engineering, architecture, and project management with an interest in construction management.

Capital Projects Paul Barshop 2016-09-06 A real-world framework for driving capital project success Capital Projects provides an empirically-based framework for capital project strategy and implementation, based on the histories of over 20,000 capital projects ranging from \$50,000 to \$40 billion. Derived from the detailed, carefully normalized database at preeminent project consultancy IPA, this solid framework is applicable to all types of capital investment projects large and small, in any sector, including technology, life sciences, petroleum, consumer products, and more. Although grounded in empirical research and rigorous data analysis, this book is not an academic discussion or a conceptual dissertation; it's a practical, actionable, on-the-ground guide to making your project succeed. Clear discussion tackles the challenges that cause capital projects to fail or underperform, and lays out exactly what it takes to successfully manage a project using real-world methods that apply at any level. Businesses report that 60 percent of their projects fail to meet all business objectives, and IPA's database shows that projects' final average net present value undershoots initial estimates by 28 percent. This book provides concrete, actionable solutions to help you avoid the pitfalls and lead the way toward a more positive outcome. Avoid the missteps that make capital projects fail Learn the specific practices that drive project success Understand what effective capital project management entails Discover real-world best practices that generate more value from capital When capital projects fail, it is almost always preventable. Inefficiency, underestimated timelines, and unforeseen costs are the primary weights that drag a project down—and they are all avoidable with good management. Capital Projects gives you the insight and practical tools you need to drive a successful project.