
Bim Project Execution Plan Facilities Management

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Volume 1 John Wiley & Sons

ePart 1 Best Practice BIM: Seeking to get BIM right? This ePart provides a touchstone for good practice by introducing a number of Key Performance Indicators (KPIs), which represent benchmarks for successful BIM implementation. It explains what good BIM looks like and the pitfalls to avoid with 'bad BIM' and 'pseudo BIM'. It highlights the part that the BIM Manager can play in achieving excellence by outlining the various responsibilities the BIM Manager's role encompasses, while also emphasising how these responsibilities have changed over time and how they are set to evolve. By drawing on interviews with the top BIM Managers worldwide, it delivers up-to-date expert insights from the field. Obook ISBN: 9781118987780; ePub ISBN: 9781118987858; ePDF ISBN: 9781118985618; published April 2015

A Guide to the BIM Body of Knowledge with Metrics, KSAs, and

Learning Outcomes John Wiley & Sons

The use of renewable energies and energy saving and efficiency are needs of global society and universities. Universities have a large responsibility and social impact, as they are an example and engine of social change. Universities, in the European context, must be at the forefront of ESA processes, seeking to be at the same level as, and preferably higher than, the rest of society, seeking a goal of 20% renewable energy for 2020 and, in the longer term, greater energy efficiency based on a diverse use of renewable energy and studying the feasibility of other energy processes (cogeneration, trigeneration, etc.). The application of renewable energies and energy efficiency allow universities to make significant savings in their costs and contribute to sustainable development and the fight against climate change. Actions in pursuit of these goals in addition to the objective of energy saving should promote research and form an example for the university community. This book aims to advance the contribution of energy saving and the use of renewable energies in order to achieve more sustainable universities.

Building Information Modeling For Dummies Springer

Science & Business Media

Paves the path for the adoption and effective implementation of BIM by design firms, emphasizing the design opportunities that this workflow affords. This book expands on BIM (Building Information Modeling), showing its applicability to a range of design-oriented projects. It emphasizes the full impact that a data modeling tool has on design processes, systems, and the high level of collaboration required across the design team. It also explains the quantitative analysis opportunities that BIM affords for sustainable design and for balancing competing design agendas, while highlighting the benefits BIM offers to designing in 3D for construction. The book concludes with a deep look at the possible future of BIM and digitally-enhanced design. Through clear explanation of the processes involved and compelling case studies of design-oriented projects presented with full-color illustrations, *BIM for Design Firms: Data Rich Architecture at Small and Medium Scales* proves that the power of BIM is far more than an improved documentation and sharing environment. It offers chapters that discuss a broad range of digital design, including problems with BIM, how readers can leverage BIM workflows for complex projects, the way BIM is taught, and more. Helps architects in small and medium design studios realize the cost and efficiency benefits of using BIM. Demonstrates how the use of BIM is as relevant and beneficial for a range of projects, from small buildings to large and complex commercial developments. Highlights the quantitative analysis opportunities of data-rich BIM models across design disciplines for climate responsiveness, design exploration, visualization, documentation, and error detection. Includes full-color case studies of small to

medium projects, so that examples are applicable to a range of practice types. Features projects by Arca Architects, ARX Protugal Arquitectos, Bearth & Deplazes, Durbach Block Jagers, Flansburgh Architects, and LEVER Architecture. *BIM for Design Firms* is an excellent book for architects in small and medium-sized studios (including design departments within large firms) as well as for architecture students.

BIM and Big Data for Construction Cost Management John Wiley & Sons

A tactical guide to successful Virtual Design and Construction project coordination, featuring case studies from leading VDC firms. Virtual Design Coordination (VDC) employs information-rich Building Information Modeling (BIM) to enable specialty designers and contractors to create a single, coordinated set of designs that can prevent cost overruns, avoid schedule delays, and identify issues in the field. Although BIM-based design coordination is widely used in the commercial construction industry, there remains a need for a standardized practice. *BIM for Design Coordination* formalizes industry best practices and provides structured guidelines to the process. Helping readers gain the benefits of BIM-based design coordination, this practical guide covers areas such as setting up a project for success, model quality impacts on design coordination, carrying out a successful VDC session, and more. Specific guidelines for various project stakeholders are laid out in detail, while real-world examples of project design coordination workflows and templates for BIM Project Execution Plans (PxPs) are provided throughout the text. Written by a leading expert and educator in the field, this book: Provides a formal set of BIM-based design coordination guidelines

that emphasize construction-stage coordination Features real-life case studies that illustrate how leading firms approach design coordination Covers BIM-based design coordination in other industries, such as infrastructure and industrial sectors Presents guidelines for all project stakeholders, including subcontractors, architects, engineers, fabricators, and owners Includes chapters on teaching BIM-based design coordination and the future of the field BIM for Design Coordination: A Virtual Design and Construction Guide for Designers, General Contractors, and MEP Subcontractors is a much-needed resource for general contractors and members of VDC teams, as well as academics, students, and professionals new to BIM-based design coordination.

Building Cost Planning for the Design Team Routledge

A practical look at extending the value of Building Information Modeling (BIM) into facility management—from the world's largest international association for professional facility managers Building owners and facility managers are discovering that Building Information Modeling (BIM) models of buildings are deep reservoirs of information that can provide valuable spatial and mechanical details on every aspect of a property. When used appropriately, this data can improve performance and save time, effort, and money in running and maintaining the building during its life cycle. It can also provide information for future modifications. For instance, a BIM could reveal everything from the manufacturer of a light fixture to its energy usage to maintenance instructions. BIM for Facility Managers explains how BIM can be linked to facility management (FM) systems to achieve very significant life-cycle advantages. It presents guidelines for

using BIM in FM that have been developed by public and private owners such as the GSA. There is an extensive discussion of the legal and contractual issues involved in BIM/FM integration. It describes how COBie can be used to name, capture, and communicate FM-related data to downstream systems. There is also extensive discussion of commercial software tools that can be used to facilitate this integration. This book features six in-depth case studies that illustrate how BIM has been successfully integrated with facility management in real-life projects at: Texas A&M Health Science Center USC School of Cinematic Arts MathWork's new campus Xavier University State of Wisconsin Facilities University of Chicago Library renovation BIM for Facility Managers is an indispensable resource for facility managers, building owners, and developers alike.

Digital Transformation of the Design, Construction and

Management Processes of the Built Environment Routledge

Everything you need to make the most of building information modeling If you're looking to get involved in the world of BIM, but don't quite know where to start, Building Information Modeling For Dummies is your one-stop guide to collaborative building using one coherent system of computer models rather than as separate sets of drawings. Inside, you'll find an easy-to-follow introduction to BIM and hands-on guidance for understanding drivers for change, the benefits of BIM, requirements you need to get started, and where BIM is headed. The future of BIM is bright—it provides the industry with an increased understanding of predictability, improved efficiency, integration and coordination, less waste, and better value and quality. Additionally, the use of BIM goes beyond the planning and design

phase of the project, extending throughout the building life cycle and supporting processes, including cost management, construction management, project management, and facility operation. Now heavily adopted in the U.S., Hong Kong, India, Singapore, France, Canada, and countless other countries, BIM is set to become a mandatory practice in building work in the UK, and this friendly guide gives you everything you need to make sense of it—fast. Demonstrates how BIM saves time and waste on site Shows you how the information generated from BIM leads to fewer errors on site Explains how BIM is based on data sets that describe objects virtually, mimicking the way they'll be handled physically in the real world Helps you grasp how the integration of BIM allows every stage of the life cycle to work together without data or process conflict Written by a team of well-known experts, this friendly, hands-on guide gets you up and running with BIM fast.

Day-to-Day BIM Management John Wiley & Sons

This new edition of the classic quantity surveying textbook retains its basic structure but has been thoroughly updated to reflect recent changes in the industry, especially in procurement. Although over the last 20 years a number of new procurement methods have evolved and become adopted, the recession has seen many clients revert to established traditional methods of procurement so the fundamentals of cost planning still apply – and should not be ignored. The first edition of this leading textbook was published in 1964 and it continues to provide a comprehensive introduction to the practice and procedures of cost planning in the procurement of buildings. This 9th edition has been thoroughly updated to reflect changes that have

occurred in the UK construction industry in the past six years. Whilst retaining its core structure of the three-phase cost planning process originally developed by Ferry and Brandon, the text provides a thorough grounding in contemporary issues including procurement innovation, whole life cycle costing and modelling techniques. Designed to support the core cost planning studies covered by students reading for degrees in quantity surveying and construction management, it provides a platform for understanding the fundamental importance of effective cost planning practice. The principals of elemental cost planning are covered from both pre- and post- contract perspectives; the role of effective briefing and client/stakeholder engagement as best practice is also reinforced in this text. This new edition: Addresses The Soft Landings Framework (a new govt. initiative, especially for schools) to make buildings perform radically better and much more sustainably. Puts focus on actual performance in use at brief stage, during design and construction, and especially before and after handover. Covers recent changes in procurement, especially under the NEC and PFI Provides more on PPP and long-term maintenance issues Offers an improved companion website with tutorial worksheets for lecturers and Interactive spreadsheets for students, e.g. development appraisal models; lifecycle costing models
Product Lifecycle Management for a Global Market Springer
This book describes the latest methods and tools for the management of information within facility management services and explains how it is possible to collect, organize, and use information over the life cycle of a building in order to optimize the integration of these services and improve the efficiency of

processes. The coverage includes presentation and analysis of basic concepts, procedures, and international standards in the development and management of real estate inventories, building registries, and information systems for facility management. Models of strategic management are discussed and the functions and roles of the strategic management center, explained. Detailed attention is also devoted to building information modeling (BIM) for facility management and potential interactions between information systems and BIM applications. Criteria for evaluating information system performance are identified, and guidelines of value in developing technical specifications for facility management services are proposed. The book will aid clients and facility managers in ensuring that information bases are effectively compiled and used in order to enhance building maintenance and facility management.

Implementation for Students and Educators Routledge
ePart 4: Building up a BIM Support Infrastructure: Addressing the 'back of house' aspect of BIM Management, this ePart outlines how to go about developing a range of in-house BIM standards and guidelines. It highlights how BIM Managers go about establishing a training programme for staff and the setting up and management of an organisation's BIM content library. It covers the support needed to move BIM information into the field and further into facilities and asset management. It emphasises the importance of internal messaging, and articulating how to nurture a culture of peer-to-peer support and advancement of skills by individual staff members. Looking beyond a single firm's or organisation's requirements, the ePart positions BIM support infrastructure in the wider context of key global BIM policies and

guidelines. Obook ISBN: 9781118987896; ePub ISBN: 9781118987919; ePDF ISBN:9781118987834; published August 2015

Building Information Modeling For Dummies Elsevier

This volume constitutes the refereed proceedings of the 18th International Conference on Software Process Improvement and Capability Determination, SPICE 2018, held in Tessaaloniki, Greece, in October 2018. The 26 full papers presented were carefully reviewed and selected from 40 submissions. The papers are organized in the following topical sections: SPI systematic literature reviews; SPI and assessment; SPI methods and reference models; SPI education and management issues; SPI knowledge and change processes; SPI compliance and configuration; SPI and agile; industry short papers.

International Scientific Conference Energy Management of Municipal Facilities and Sustainable Energy Technologies EMMFT 2019 John Wiley & Sons

Building Information Modeling (BIM) refers to the consistent and continuous use of digital information throughout the entire lifecycle of a built facility, including its design, construction and operation. In order to exploit BIM methods to their full potential, a fundamental grasp of their key principles and applications is essential. Accordingly, this book combines discussions of theoretical foundations with reports from the industry on currently applied best practices. The book's content is divided into six parts: Part I discusses the technological basics of BIM and addresses computational methods for the geometric and semantic modeling of buildings, as well as methods for process modeling. Next, Part II covers the important aspect of the

interoperability of BIM software products and describes in detail the standardized data format Industry Foundation Classes. It presents the different classification systems, discusses the data format CityGML for describing 3D city models and COBie for handing over data to clients, and also provides an overview of BIM programming tools and interfaces. Part III is dedicated to the philosophy, organization and technical implementation of BIM-based collaboration, and discusses the impact on legal issues including construction contracts. In turn, Part IV covers a wide range of BIM use cases in the different lifecycle phases of a built facility, including the use of BIM for design coordination, structural analysis, energy analysis, code compliance checking, quantity take-off, prefabrication, progress monitoring and operation. In Part V, a number of design and construction companies report on the current state of BIM adoption in connection with actual BIM projects, and discuss the approach pursued for the shift toward BIM, including the hurdles taken. Lastly, Part VI summarizes the book's content and provides an outlook on future developments. The book was written both for professionals using or programming such tools, and for students in Architecture and Construction Engineering programs.

BIM Beyond Design Guidebook John Wiley & Sons

Digital Transformation of the Design, Construction and Management Processes of the Built Environment Springer Nature

Building Information Modelling (BIM) in Design, Construction and Operations John Wiley & Sons

With the UK government's 2016 BIM threshold approaching, support for small organisations on interpreting, filtering and applying BIM protocols and standards is urgently required. Many

small UK construction industry supply chain firms are uncertain about what Level 2 BIM involves and are unsure about taking first steps towards having BIM capability. As digitisation, increasingly impacts on work practices, *Getting to Grips with BIM* offers an insight into an industry in change supplemented by practical guidance on managing the transition towards more widespread and integrated use of digital tools to manage the design, construction and whole life use of buildings.

A Guide for Engineers and Architects Routledge

Provides guidance for all skill levels to learn how to perform tasks using Autodesk Revit for Architecture.

BIM Handbook John Wiley & Sons

Offering critical insights to the state-of-the-art in Building Information Modeling (BIM) research and development, this book outlines the prospects and challenges for the field in this era of digital revolution. Analysing the contributions of BIM across the construction industry, it provides a comprehensive survey of global BIM practices.

18th International Conference, SPICE 2018, Thessaloniki, Greece, October 9-10, 2018, Proceedings Springer

A systematic Building Information Modeling (BIM) framework features cutting-edge use cases and competencies for students and professionals pursuing BIM careers. *Developing BIM Talent: A Guide to the BIM Body of Knowledge with Metrics, KSAs, and Learning Outcomes* leads readers through the process of implementing a state-of-the-art BIM training and education program. Authored by a team of celebrated and highly qualified scholars and practitioners, this exciting new BIM education and workforce development guide offers a roadmap that navigates

readers through the comprehensive BIM metrics and KSAs detailed in the BIM Body of Knowledge sponsored by the Academic Interoperability Coalition (AiC). *Developing BIM Talent* offers: A solid foundation and guidelines for educators and practitioners for starting or enhancing a BIM curriculum or training program Templates, expert interviews, and case studies that provide in-depth knowledge and lessons learned that can facilitate process changes and strategic action plans Strategies for standardizing emerging BIM job tasks, descriptions, and methods for benchmarking performance This guide to contemporary and comprehensive metrics of BIM competency is an essential resource for corporate trainers and instructors teaching BIM, human resources professionals charged with recruiting BIM talent, as well as leadership interested in credentialing and BIM certification programs.

Developing BIM Talent IGI Global

This practical guide to cost studies of buildings has been updated and revised throughout for the 6th edition. New developments in RICS New Rules of Measurement (NRM) are incorporated throughout the book, in addition to new material on e-business, the internet, social media, building information modelling, sustainability, building resilience and carbon estimating. This trusted and easy to use guide to the cost management role: Focuses on the importance of costs of constructing projects during the different phases of the construction process Features learning outcomes and self-assessment questions for each chapter Addresses the requirements of international readers From introductory data on the construction industry and the history of construction economics, to recommended methods for

cost analysis and post-contract cost control, *Cost Studies of Buildings* is an ideal companion for anyone learning about cost management.

Developing a Business Case Open Dissertation Press

The book reports on the great improvements in the information and knowledge management due to the digitalization of the building sector. By summarizing several research projects addressing the implementation of BIM in different stages of the building process, and the definition of standards at Italian, European and international levels for managing information relying on the implementation of BIM-based processes, it showcases the efforts, especially within the Italian building sector, to build a standardized structure of information and develop tools for collecting, sharing and exchanging information between stakeholders involved in different stages of the building process, so as to enhance the storage, traceability, usability and re-usability of information management. Further, it presents an enhanced use of information that relies on the adoption of the standardized structure of information, and proposes dedicated applications for automating the process of information fruition. Lastly, it features a digital platform for different stakeholders in the building sector, such as manufacturers, producers and construction companies.

Getting to Grips with BIM Springer

The Veterans Health Administration (VHA) is America's largest integrated health care system, providing care at 1,243 health care facilities, including 172 medical centers and 1,063 outpatient sites of care of varying complexity, serving 9 million enrolled Veterans each year. In addition, VHA has opened

outpatient clinics and established telemedicine and other services to accommodate a diverse veteran population and continues to cultivate ongoing medical research and innovation. Facilities specific to VHA fulfill clinical, operational, research laboratory, and administrative functions. Each site is designed to serve a geographical location with specific health care needs. VHA's building inventory has sites of different ages, and often there is a mix of building size and age at each site or campus. At the request of the VHA, this study presents a comprehensive resource planning and staffing methodology guidebook for VHA Facility Management Programs by reviewing the tasks of VHA building facilities staff and recommending actions for the VHA to meet the mission goals of delivering patient care, research, and effective operations.

The BIM Manager's Handbook, Part 4 John Wiley & Sons
This book constitutes the refereed post-proceedings of the 11th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2014, held in Yokohama, Japan, in July 2014. The 51 full papers presented were carefully reviewed and selected from 77 submissions. They are organized in the following topical sections: BIM operations, maintenance, and renovation; BIM concepts and lifecycle management; design and education; naval engineering and shipbuilding; aeronautical and automotive engineering; industry and consumer products; interoperability, integration, configuration, systems engineering; change management and maturity; knowledge engineering; knowledge management; service and manufacturing; and new PLM.