Building Information Modeling: A Strategic Implementation Guide for Architects, Engineers, Constructors, and Real Estate Asset Managers

Dana K. Smith, Michael Tardif

E-Book ISBN: 978-1-118-39923-1 April 2012 $70.99
Hardcover ISBN: 978-0-470-25003-7 April 2009 $88.50

DESCRIPTION

The optimal approach to design, build, operate, and maintain buildings

With this strategic guide to building information modeling (BIM), you'll learn how to implement this new technology as part of a comprehensive systems approach to the design, construction, management, operation, maintenance, and use of buildings. The authors, among the leading experts and pioneers in BIM, show you how BIM supports more streamlined, integrated, and efficient business processes throughout the life cycle of buildings, from their initial conception through their eventual retirement or reuse. The result is better quality buildings, lower construction and operating costs, shorter project turnaround times, and a higher quality of building information to support better business decisions. Moreover, they set forth a plan for incorporating BIM into every organization’s existing workflows, enabling you to take full advantage of all the benefits that BIM offers.

Everything you need to implement a BIM approach is set forth in detail, including:

• The business case for BIM, demonstrating how it can improve collaboration, facilitate better design and construction, optimize workflow, and help reduce risk

• Guidance for meeting the challenges of BIM such as an entrenched business culture, the proliferation of BIM tools, and the uneven rates of BIM adoption
The “big picture” view showing how your organization can work with business partners and fit into the building life cycle in a BIM-enabled industry

Throughout the book, sample documents and figures help you better understand the principles of BIM and how it works in practice. In addition, first-hand accounts show you exactly how adopters of BIM have gained a competitive edge.

Architects, engineers, constructors, building owners, and facility managers can turn to this book to realize the full potential of BIM and radically improve the way buildings are designed, built, operated, and maintained.

ABOUT THE AUTHOR

Dana K. Smith, FAIA, is Executive Director of the buildingSMART alliance, a program of the National Institute of Building Sciences (NIBS), and a Senior Analyst with Cyon Research. He is the founder and former chair of the NIBS Facility Information Council, developer of the U.S. National Computer Aided Design (CAD) Standard and the National Building Information Modeling (BIM) Standard. His efforts to advance the art and science of building have been recognized by numerous honors and accolades, including the 1996 Federal 100 Award, the 1997 NIBS Member Award, and the 2006 CAD Society Leadership Award.

MICHAEgL TARDIF, Assoc. AIA, CSI, Hon. SDA, is Director of Integrated Project Delivery Systems for Grunley Construction Company in Rockville, Maryland, and a contributing editor to AIArchitect and Construction Project Controls and BIM Report. He is the former director of the Center for Technology and Practice Management of the American Institute of Architects (AIA) and the former project manager of the agcXML Project, an initiative funded and executed by the Associated General Contractors of America (AGC) under the auspices of the buildingSMART alliance, one of the first standards-development efforts to support genuine e-commerce in the building industry.

For additional product details, please visit https://www.wiley.com/en-us