

# SUSS BPM107 – Construction IT & BIM

## Course Content

- 1) IT & Construction (BIM as Technology)
- 2) Construction Digitalisation
- 3) What is BIM? (Concept of Parametric)
- 4) Why BIM? / Characteristics of BIM
- 5) **Challenges of BIM (Strength and Weakness)**
- 6) Benefits of BIM
- 7) BIM Infrastructure (People/Process/Technology)
- 8) Interoperability
- 9) Working with BIM (Modelling and Analysis)
- 10) BIM Applications (3D/4D/5D/6D/7D)
- 11) **Clash Detections – Types of Clashes**
  - Hard Clash
  - Soft Clash
  - 4D Clash
- 12) **Level of Development (LOD)**
- 13) BIM Planning
- 14) **BIP – BIM Implementation Plan**
- 15) **SEP – BIM Execution Plan**
- 16) **BIM Team & Resources (BIM Manager)**
  - Roles & Responsibility
- 17) Integrated Digital Delivery
- 18) OpenBIM / IFC

# Template Bim Protocol Bim Task Group

**Stefan Mordue, Paul Swaddle, David  
Philp**



## **Template Bim Protocol Bim Task Group:**

**Getting to Grips with BIM** James Harty, Tahar Kouider, Graham Paterson, 2015-12-14 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

**Construction Manager's BIM Handbook** John Eynon, 2016-06-27 CONSTRUCTION MANAGER'S BIM HANDBOOK Building Information Modelling BIM harnesses digital technologies to unlock more efficient methods of designing creating and maintaining built environment assets BIM embeds key product and asset data with a 3 dimensional model of a built asset which can be used to foster a collaborative way of working and effective management of information throughout a project lifecycle The UK government is encouraging the adoption of BIM by mandating that all central government departments adopt collaborative Level 2 BIM file based collaboration and library management by 2016 for all construction projects The Construction Manager's BIM Handbook ensures the reader understands what BIM is what the UK strategy is and what it means for key roles in the construction team By providing concise summaries of key aspects of BIM explaining the government documents and intentions and providing pointers on implementation all readers will be fully aware of the implications of BIM for them and their organisations and can begin to adopt this approach in future projects ALSO AVAILABLE The Design Manager's Handbook John Eynon CIOB Paperback 9780470674024 BIM and Construction Management Proven Tools Methods and Workflows 2nd Edition Brad Hardin Dave McCool Paperback 9781118942765

**Code of Practice for Project Management for Construction and Development** CIOB (The Chartered Institute of Building), 2014-07-23 The first edition of the Code of Practice for Project Management for Construction and Development published in 1992 was groundbreaking in many ways Now in its fifth edition prepared by a multi institute task force coordinated by the CIOB and including representatives from RICS RIBA ICE APM and CIC it continues to be the authoritative guide and reference to the principles and practice of project management in construction and development Good project management in construction relies on balancing the key constraints of time quality and cost in the context of building functionality and the requirements for sustainability within the built environment Thoroughly updated and restructured to reflect the challenges that the industry faces today this edition continues to drive forward the practice of construction project management The principles of strategic planning detailed programming and monitoring resource allocation and effective risk management widely used on projects of all sizes and complexity are all fully covered The integration of Building Information Modelling at each stage of the project life is a feature of this edition In addition the impact of trends and developments such

as the internationalisation of construction projects and the drive for sustainability are discussed in context Code of Practice will be of particular value to clients project management professionals and students of construction as well as to the wider construction and development industries Much of the information will also be relevant to project management professionals operating in other commercial spheres

**Building Information Modelling (BIM) in Design, Construction and Operations II** A. Galiano-Garrigos, L. Mahdjoubi, C.A. Brebbia, 2017-08-09 The papers presented at Building Information Modelling 2017 BIM are from a range of forums including plenary papers workshops seminars and panel sessions The conference was attended by experts from industry practice and academia sharing their work on key topics the development of innovative solutions and the identification future trends The volume gives details of how BIM tools and techniques have fundamentally altered the manner in which modern construction teams operate the processes through which designs are evolved and the relationships between conceptual detail construction and life cycle stages BIM is essentially value creating collaboration throughout the entire life cycle of an asset underpinned by the statistics attached to them and has far and reaching consequences on both building procurement and infrastructure BIM 2017 papers cover topics such as BIM in design coordination Construction operations Building operation and maintenance BIM and sustainability Collaborative working and practices Facilities management integration and GIS integration Automation in construction Health and safety BIM and interoperability Life cycle project management Cultural heritage BIM and Robotics Risk analysis and management and Emergency analysis planning and management

Building Information Modelling (BIM) in Design, Construction and Operations L. Mahdjoubi, C.A. Brebbia, R. Laing, 2015-09-09 Building Information Modelling BIM in Design Construction and Operations contains the proceedings of the first in a planned series of conferences dealing with design coordination construction maintenance operation and decommissioning The book gives details of how BIM tools and techniques have fundamentally altered the manner in which modern construction teams operate the processes through which designs are evolved and the relationships between conceptual detail construction and life cycle stages The papers contributed by experts from industry practice and academia debate key topics develop innovative solutions and predict future trends The interdisciplinary nature of the contents and the collaborative practices discussed so important within the built environment will appeal to those engaged in design surveying visualisation infrastructure real estate construction law insurance and facilities management Topics covered include BIM in design coordination BIM in construction operations BIM in building operation and maintenance BIM and sustainability BIM and collaborative working and practices BIM health and safety and BIM facilities management integration among others

**The BIM Management Handbook** David Shepherd, 2019-07-25 An authoritative and practical road map for those implementing and managing BIM workflows With the 2016 deadline for BIM level 2 fast approaching and the growing realisation of the huge benefits BIM brings these skills are becoming industry essentials Concentrating on the how rather than the why this will help you to adapt by clearly and without jargon explaining

standard BIM processes Government standards and the effective coordination of design construction and asset information Spanning both organisational strategy and day to day practical tasks it explores bottom line business reasoning as well as potential risks and challenges This is the go to guide for BIM Coordinators and Managers architectural principals design team leaders and architectural technicians ensuring you are BIM ready in 2016 It will also be invaluable for Part 3 students getting to grips with BIM strategy and implementation

**Information Exchanges** Richard Fairhead,2019-06-27 The RIBA Plan of Work 2013 Guide Design Management is part of a brand new series providing must read practical guidance to running efficient and successful projects using the new RIBA Plan of Work 2013 Each guide takes a core project task in this case managing information exchanges and explains the essential activities and considerations required at each stage of the new Plan of Work Easy to use and navigate and in a small and handy format these guides will provide the ultimate quick reference support at your desk or on site The author provides concise and pragmatic advice rooted in real world experience a how to that will resonate with practitioners In text features such as hints and tips checklists forms and templates and signposts to trusted resources will provide user friendly support Boxed examples will highlight best practice and illuminate common problems and solutions borne of hard won experience

**BIM for Construction Health and Safety** Stefan Mordue,Roland Finch,2019-08-13 What is BIM and how does it affect the health and safety professional How are BIM technologies used on a practical level What opportunities are there for the use of BIM in the health and safety arena This concise and practical guide aims to answer all these questions and more The health and safety role is evolving towards collaboration structured data and sharing of information as BIM the incarnation of these sensibilities increasingly underpins construction practice As the industry begins to see how these two topics can and should intersect this guide provides context and practical advice by explaining the basic principles of BIM how it will shape the health and safety professional s role and what tools and processes will need to be embedded in the future It also highlights the wealth of opportunities that BIM provides to improve health and safety standards and effective coordination the means to exploit the potential of BIM

**Integrated Building Information Modelling** Peng Wu,Haijiang Li ,Xiangyu Wang,2017-07-10 Building information modelling BIM is a set of interacting policies processes and technologies that generates a methodology to manage the essential building design and project data in digital format throughout the building s life cycle BIM makes explicit the interdependency that exists between structure architectural layout and mechanical electrical and hydraulic services by technologically coupling project organizations together Integrated Building Information Modelling is a handbook on BIM courses standards and methods used in different regions Including UK Africa and Australia 13 chapters outline essential information about integrated BIM practices such as the BIM in site layout plan BIM in construction product management building life cycle assessment quantity surveying and BIM in hazardous gas monitoring projects while also presenting information about useful BIM tool and case studies The book is a useful handbook for engineering management professionals

and trainees involved in BIM practice      **BIM and Quantity Surveying** Steve Pittard, Peter Sell, 2017-07-14 The sudden arrival of Building Information Modelling BIM as a key part of the building industry is redefining the roles and working practices of its stakeholders Many clients designers contractors quantity surveyors and building managers are still finding their feet in an industry where BIM compliance can bring great rewards This guide is designed to help quantity surveying practitioners and students understand what BIM means for them and how they should prepare to work successfully on BIM compliant projects The case studies show how firms at the forefront of this technology have integrated core quantity surveying responsibilities like cost estimating tendering and development appraisal into high profile BIM projects In addition to this the implications for project management facilities management contract administration and dispute resolution are also explored through case studies making this a highly valuable guide for those in a range of construction project management roles Featuring a chapter describing how the role of the quantity surveyor is likely to permanently shift as a result of this development as well as descriptions of tools used this covers both the organisational and practical aspects of a crucial topic

*Building Information Modeling For Dummies* Stefan Mordue, Paul Swaddle, David Philp, 2015-10-02 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      **Construction Project Management** Peter Fewings, Christian Henjewe, 2019-03-21

Construction Project Management An Integrated Approach is a management approach to leading projects and the effective choice and use of project management tools and techniques It seeks to push the boundaries of project management to take on board future needs and user issues Integration of the construction project meaning closer relations between the project

team the supply chain and the client is long overdue however despite some signs of growth in this area the industry nonetheless remains fragmented in its approach The role of the project manager is to integrate diverse interests and unify objectives to achieve a common goal This has now broadened to include a responsibility on the parts of both client and team to ensure that construction addresses current and future societal needs From an economic perspective a great deal of waste is connected with conflict thus a holistic approach that increases the efficiency and effectiveness of the task at hand will inject energy into project management This third edition now takes on board the impact of technology in building information modelling and other digitised technologies such as artificial intelligence Together they open up avenues for more direct and incisive action to test creative design manufacture directly and communicate spontaneously and intuitively In time such technologies will change the role of project managers but will never take away their responsibility to be passionate about construction and to integrate the team A new chapter has been added that considers future societal needs This edition is also reordered to make the project life cycle and process chapters clearer This book combines best practice in construction with the theories underpinning project management and presents a wealth of practical case studies many new It focuses on all construction disciplines that may manage projects The book is of unique value to students in the later years of undergraduate courses and those on specialist postgraduate courses in project management and also for practitioners in all disciplines and clients who have experienced the frustration caused by the fragmentation of construction projects

**Collaborative Construction Procurement and Improved Value** David Mosey, 2019-04-04 The guide that explores how procurement and contracts can create an integrated team while improving value economy quality and client satisfaction Collaborative Construction Procurement and Improved Value provides an important guide for project managers lawyers designers constructors and operators showing step by step how proven collaborative models and processes can move from the margins to the mainstream It covers all stages of the project lifecycle and offers new ways to embed learning from one project to the next Collaborative Construction Procurement and Improved Value explores how strategic thinking intelligent team selection contract integration and the use of digital technology can enhance the value of construction projects and programmes of work With 50 UK case studies plus chapters from specialists in 6 other jurisdictions it describes in detail the legal and procedural route maps for successful collaborative teams Collaborative Construction Procurement and Improved Value Examines the ways to create an effective contract that will spell success throughout the procurement process Contains helpful case studies from real world projects and programmes Explores the benefits of the collaborative construction process and how to overcome common obstacles Bridges the gaps between contract law collaborative working and project management Includes the first analysis of the NEC4 Alliance Contract the FAC 1 Framework Alliance Contract and the TAC 1 Term Alliance Contract

**BIM Teaching and Learning Handbook** M. Reza Hosseini, Farzad Khosrowshahi, Ajibade Aibinu, Sepehr Abrishami, 2021-08-09 This book is the essential guide to the pedagogical and industry inspired considerations

that must shape how BIM is taught and learned It will help academics and professional educators to develop programmes that meet the competences required by professional bodies and prepare both graduates and existing practitioners to advance the industry towards higher efficiency and quality To date systematic efforts to integrate pedagogical considerations into the way BIM is learned and taught remain non existent This book lays the foundation for forming a benchmark around which such an effort is made It offers principles best practices and expected outcomes necessary to BIM curriculum and teaching development for construction related programs across universities and professional training programmes The aim of the book is to Highlight BIM skill requirements threshold concepts and dimensions for practice Showcase and introduce tried and tested practices and lessons learned in developing BIM related curricula from leading educators Recognise and introduce the baseline requirements for BIM education from a pedagogical perspective Explore the challenges as well as remedial solutions pertaining to BIM education at tertiary education Form a comprehensive point of reference covering the essential concepts of BIM for students Promote and integrate pedagogical consideration into BIM education This book is essential reading for anyone involved in BIM education digital construction architecture and engineering and for professionals looking for guidance on what the industry expects when it comes to BIM competency

**Product Lifecycle Management in the Era of Internet of Things** Abdelaziz Bouras,Benoit Eynard,Sebti Fougou,Klaus-Dieter

Thoben,2016-04-20 This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2015 held in Doha Qatar in October 2015 The 79 revised full papers were carefully reviewed and selected from 130 submissions The papers are organized in the following topical sections smart products assessment approaches PLM maturity building information modeling BIM languages and ontologies product service systems future factory knowledge creation and management simulation and virtual environments sustainability and systems improvement configuration and engineering change education studies cyber physical and smart systems design and integration issues and PLM processes and applications

Proceedings of the 2nd International Conference on Building Innovations Volodymyr Onyshchenko,Gulchohra Mammadova,Svitlana Sivitska,Akif Gasimov,2020-06-13 This book gathers the latest advances innovations and applications in the field of building design and construction by focusing on new design solutions for buildings and new technologies creation for construction as presented by researchers and engineers at the 2nd International Conference Building Innovations ICBI held in Poltava Baku Ukraine Azerbaijan on May 23-24 2019 It covers highly diverse topics including structures operation repairing and thermal modernization in existing buildings and urban planning features machines and mechanisms for construction as well as efficient economy and energy conservation issues in construction The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

Advances in Informatics and Computing in Civil and Construction Engineering Ivan Mutis,Timo Hartmann,2018-10-08 This proceedings



volume chronicles the papers presented at the 35th CIB W78 2018 Conference IT in Design Construction and Management held in Chicago IL USA in October 2018 The theme of the conference focused on fostering encouraging and promoting research and development in the application of integrated information technology IT throughout the life cycle of the design construction and occupancy of buildings and related facilities The CIB International Council for Research and Innovation in Building Construction was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector with an emphasis on those institutes engaged in technical fields of research The conference brought together more than 200 scholars from 40 countries who presented the innovative concepts and methods featured in this collection of papers     **Integrated Design and Construction - Single Responsibility** Colin Harding,2015-11-16

Manufacturing and service industries have significantly improved their levels of productivity quality and profitability over the past 30 years whereas in the construction industry similar levels of improvement have been impossible to achieve Numerous reports have identified fragmentation of the industry s management structures and processes as the underlying cause of the waste and inefficiencies that keep costs high and margins low Integrated Design and Construction is an integrated yet competitive form of procurement design and project delivery based on the principle of purchasing any other high value warranted manufactured product Such an approach would make the construction process more like other manufacturing industries allowing contractors to make similar improvements to those already seen in other manufacturing industries Designed for use by experienced construction professionals familiar and proficient with traditional design and construction system best practice this Code of Practice provides both client and constructor with the necessary information to adopt this approach to create well designed and well constructed products fully meeting client needs     **Civil Integrated**

**Management (CIM) for Departments of Transportation** William J. O'Brien,2016 TRB s National Cooperative Highway Research Program NCHRP Report 831 Civil Integrated Management CIM for Departments of Transportation Volume 1 Guidebook presents guidance for collecting organizing and managing information in digital formats about a highway or other transportation construction project Volume 2 Research Report provides background material on collecting organizing and managing information in digital formats about a highway or other transportation construction project The term civil integrated management CIM has been adopted in recent years to encompass an assortment of practices and tools entailing collection organization and management of information in digital formats about highway or other transportation construction projects Transportation agencies may realize significant benefits from increased adoption of these practices which may be useful when managing an asset s initial planning phase through its in service maintenance     *ETHICS: Endorse Technologies for Heritage Innovation* Alessandra Battisti,Serena Baiani,2024-01-04 This book outlines within the Italian national framework the current and potential paths oriented towards a new concept of Architectural Heritage through

actions referring to Innovation and Experimentation and Protection and Transformation of the Architectural Heritage The development of the themes is articulated in two sessions dealing with the aspects related to the analysis and mapping of Architectural Heritage to face the context of the current Climate Crisis and the development of projects and experimentations oriented to the Green and Digital Transition The evolution of the concept of Heritage as conceived by the United Nations 2030 Agenda and in the Green Deal and New European Bauhaus aimed at constructing an inclusive and universally recognised definition to support supranational objectives of sustainable human development gives rise to innovative strategies methodologies and technologies that in a direction of mitigation contrast and adaptation to climate change allow for the safeguard renewed management and a hope for valorisation of Heritage on a national scale In this direction the understanding of Architectural Heritage as a non renewable resource determines the need to activate design experimentation laboratories oriented towards regeneration articulated and complex which require in order to respond to the challenges posed by our era a sensitive and dialogic multidisciplinary vision of a holistic type In fact on the one hand it is necessary to redefine the usability and management methods of built heritage through the adoption of digital mobility energy ecological social green and blue infrastructures on the other hand it is necessary to introduce new qualitative and quantitative parameters and performance indicators adequate to verify the validity of the implemented strategies in a perspective of adaptation to climate change able to clarify contents processes and tools to contrast future risks The pursuit of these objectives refers to the innovation of training paths professionalising procedures administrative regulations and public policies that involve citizens and the private partnership towards a different project qualification and empowerment of stakeholders inhabitants professionals and clients The Technological Project makes it possible to activate different interventions aimed at acting in an integrated manner on assets context and communities according to an approach that reinterprets them on a common score as proposed by the European Next Generation programme in three priority aspects digitalisation and innovation environmental transition increased resilience and social sustainability of national economies In this scenario the interventions aimed at outlining sustainable development actions will have to place these concepts at the centre in a harmonious vision that starts from the recognition and enhancement of the Architectural Heritage recognising it as a fundamental asset of the territories

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