

**Innovation in the
Built Environment**



**RICS
Research**

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FINN ORSTAVIK
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Construction Innovation

WILEY Blackwell

Construction Innovation Innovation In The Built Environment

Alison Cotgrave, Mike Riley



Construction Innovation Innovation In The Built Environment:

Construction Innovation Finn Orstavik, Andrew R. J. Dainty, Carl Abbott, 2015-01-20 Construction innovation is an important but contested concept both in industry practice and academic reflection and research A fundamental reason for this is the nature of the construction industry itself the industry and the value creation activities taking place there are multi disciplinary heterogeneous distributed and often fragmented This book takes a new approach to construction innovation revealing different perspectives set in a broader context It coalesces multiple theoretical and practice based views in order to stimulate reflection and to prepare the ground for further synthesis By being clear cogent and unambiguous on the most basic definitions it can mobilise a plurality of perspectives on innovation to promote fresh thinking on how it can be studied enabled measured and propagated across the industry This book does not gloss over the real life complexity of construction innovation Instead its authors look explicitly at the challenges that conceptual issues entail and by making their own position clear they open up fresh intellectual space for reflection Construction Innovation examines innovation from different positions and through different conceptual lenses to reveal the richness that the theoretical perspectives offer to our understanding of the way that the construction sector actors innovate at both project and organizational levels The editors have brought together here leading scholars to deconstruct the concept of innovation and to discuss the merits of different perspectives their commonalities and their diversity The result is an invaluable sourcebook for those studying and leading innovation in the design the building and the maintenance of our built environment *Technology, Design and Process Innovation in the Built Environment* Peter Newton, Keith Hampson, Robin Drogemuller, 2009-02-09 Buildings and infrastructure represent principal assets of any national economy as well as prime sources of environmental degradation Making them more sustainable represents a key challenge for the construction planning and design industries and governments at all levels and the rapid urbanisation of the 21st century has turned this into a global challenge This book embodies the results of a major research programme by members of the Australia Co operative Research Centre for Construction Innovation and its global partners presented for an international audience of construction researchers senior professionals and advanced students It covers four themes applied to regeneration as well as to new build and within the overall theme of Innovation Sustainable Materials and Manufactures focusing on building material products their manufacture and assembly and the reduction of their ecological fingerprints the extension of their service lives and their re use and recyclability It also explores the prospects for applying the principles of the assembly line Virtual Design Construction and Management viewed as increasing sustainable development through automation enhanced collaboration such as virtual design teams real time BL performance assessment during design simulation of the construction process life cycle management of project information zero information loss risk minimisation and increased potential for innovation and value adding Integrating Design Construction and Facility Management over the Project Life Cycle by converging ICT design

science engineering and sustainability science Integration across spatial scales enabling building infrastructure synergies such as water and energy efficiency Convergences between IT and design and operational processes are also viewed as a key platform increased sustainability Innovation in Construction Andre Manseau, George Seaden, 2003-09-02 How can innovation in the construction industry be strengthened What instruments and approaches are being used by governments to promote it What works and under what circumstances These key questions have profound implications This book presents a framework for the analysis of innovation models and systems in construction and an international comparison of these systems with a focus on their application in practical policy development **Construction 4.0** Anil Sawhney, Michael Riley, Javier Irizarry, 2020-02-06 Modelled on the concept of Industry 4.0 the idea of Construction 4.0 is based on a confluence of trends and technologies that promise to reshape the way built environment assets are designed constructed and operated With the pervasive use of Building Information Modelling BIM lean principles digital technologies and offsite construction the industry is at the cusp of this transformation The critical challenge is the fragmented state of teaching research and professional practice in the built environment sector This handbook aims to overcome this fragmentation by describing Construction 4.0 in the context of its current state emerging trends and technologies and the people and process issues that surround the coming transformation Construction 4.0 is a framework that is a confluence and convergence of the following broad themes discussed in this book Industrial production prefabrication 3D printing and assembly offsite manufacture Cyber physical systems actuators sensors IoT robots cobots drones Digital and computing technologies BIM video and laser scanning AI and cloud computing big data and data analytics reality capture Blockchain simulation augmented reality data standards and interoperability and vertical and horizontal integration The aim of this handbook is to describe the Construction 4.0 framework and consequently highlight the resultant processes and practices that allow us to plan design deliver and operate built environment assets more effectively and efficiently by focusing on the physical to digital transformation and then digital to physical transformation This book is essential reading for all built environment and AEC stakeholders who need to get to grips with the technological transformations currently shaping their industry research and teaching **Construction Innovation and Process Improvement** Akintola Akintoye, Jack Goulding, Girma Zawdie, 2012-04-30 Innovation in construction is essential for growth The industry strives to remain competitive using a variety of approaches and needs to engage structured initiatives linked to proven innovation concepts techniques and applications Even in mature markets like the Architecture Engineering and Construction AEC sector where business behaviour is generally considered as being risk averse it is increasingly important to embed innovation into mainstream business practices In Construction Innovation and Process Improvement a number of wide ranging issues from construction practice in different countries with different contexts are presented to provide a rich collection of literature embracing theory and practice Chapters are divided into three broad themes of construction innovation relating to Theory and Practice

Process Drivers and Future Technologies Several questions are posed including for example What is particularly unique about construction innovation in theory and practice What are the major drivers of construction innovation What factors are needed to support and deliver future construction technologies In attempting to respond to such questions the book sheds new light on these challenges and provides readers with a number of ways forward especially cognisant of the increased role of globalisation the enhanced impact of knowledge and importance of innovation All these can have a significant impact on strategic decision making competitive advantage and sustainable policies and practices Part One deals with change management technology sustainable construction and supply chain management Part Two addresses innovation and process improvement drivers including strategic management concurrent engineering risk management innovative procurement knowledge management Part Three explores future technologies in construction and particularly how these can be harnessed and leveraged to help procure innovation and process improvement

Making Sense of Innovation in the Built Environment Natalya Sergeeva, 2019-01-15 This book offers a new understanding of innovation in the built environment The ways meaning of innovation is constructed has important implications for policymakers project managers academics and students Through a longitudinal research study into innovation in firms and projects the book addresses some key themes challenges and concerns that practitioners face when managing innovation in the built environment It examines the key drivers for innovation in the construction engineering and infrastructure firms and projects In particular the questions of how and why innovation becomes recognised and sustained over time are explored Different theoretical perspectives are considered to explain different aspects of innovation This includes sensemaking organisational and individual identity storytelling and narration The book has practical implications for how organisational activities become labelled as innovation and for what purpose It shares some lived stories of innovation as mobilised by practising managers The connectivity between the formal narratives of innovation at the policy level and the lived narratives of innovation articulated by practitioners is explored Combining the theory with practice this book presents an insightful view on the implications of innovation in the business world today

Technology, Design and Process Innovation in the Built Environment Peter Newton, Keith Hampson, Robin Drogemuller, 2009-02-09 Making buildings and infrastructure more sustainable represents a key and global challenge This presents the results of research from the Australia Co operative Research Centre for Construction Innovation covering four themes applied to regeneration as well as to new build Sustainable Materials and Manufactures Virtual Design Construction and Management Integrating Design Construction and Facility Management over the Project Life Cycle and Integration across spatial scales

Innovation in Small Professional Practices in the Built Environment Shu-Ling Lu, Martin Sexton, 2009-09-08 From the book's Foreword by Trevor Mole Managing Director Property Tectonics President of the European Association of Building Surveyors and Construction Experts Shu Ling and Martin have built on their research work and that of others to produce an understandable and readable insight into innovation in small professional service firms

They have successfully unravelled the complex behavioural and organisational forces taking place and created a framework to help practitioners understand the issues and to fashion the right environment in which to foster innovation and deliver economic value. Small professional practices in the built environment are crucial to the success and long term viability of the design construction and property industries. This research based book addresses the urgent need to better understand the nature and process of innovation in these important firms. The authors offer an analysis of both why and how innovation is a key competitive factor for small professional practices in the built environment. As these practices are located in different business environments and behave in different ways to other types of industry firms the context specific methodology to design implement and assess innovation in small professional practices presented in this book will appeal to researchers and practitioners in surveying and design. Innovation in Small Professional Practices in the Built Environment makes a significant contribution to an underdeveloped area of innovation by offering new theoretical and practical insights and models grounded in results from a 22 month case study of a small professional practice.

Making Sense of Innovation in the Built Environment NATALYA. SERGEEVA, 2021-06-30 This book offers a new understanding of innovation in the built environment. The way meaning of innovation is constructed has important implications for policymakers project managers academics and students. Through a longitudinal research study into innovation in firms and projects the book addresses some key themes challenges and concerns that practitioners face when managing innovation in the built environment. It examines the key drivers for innovation in the construction engineering and infrastructure firms and projects. In particular the questions of how and why innovation becomes recognised and sustained over time are explored. Different theoretical perspectives are considered to explain different aspects of innovation. This includes sensemaking organisational and individual identity storytelling and narration. The book has practical implications for how organisational activities become labelled as innovation and for what purpose. It shares some lived stories of innovation as mobilised by practising managers. The connectivity between the formal narratives of innovation at the policy level and the lived narratives of innovation articulated by practitioners is explored. Combining the theory with practice this book presents an insightful view on the implications of innovation in the business world today.

Research Companion to Innovation in Construction Mohammed F. Dulaimi, 2025-06-09 This incisive Research Companion presents a global perspective on the state of the art of research on innovation policies strategies and practices in construction challenging existing theories models and concepts. Chapters explore conceptual frameworks for fostering innovation in construction projects featuring case studies that illustrate practical implementation.

10th Symposium Construction Innovation and Global Competitiveness Ben Obinero Uwakwe, Isaam A. Minkarah, 2002-09-23 This two volume set comprises the proceedings of the 2002 symposium concerned with innovation in the construction industry and global competition. Approximately 115 papers address topics ranging from business improvement to the impact of innovation on the built environment and globalization and

competitiveness **Sustainable Futures in the Built Environment to 2050** Tim Dixon, John Connaughton, Stuart Green, 2018-01-09 Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book focuses on both construction and development issues and examines how we can transition to a sustainable future by the year 2050 bringing together leading research and practice at building neighbourhood and city levels It deftly analyses how emerging socio economic technological and environmental trends will influence the built environment of the future The book covers a broad spectrum of interests across the scales of buildings communities and cities including how professional practice will need to adapt to these trends The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development features chapters covering data and trends including historical data and UK and international case studies policies and practice related to the field current state of scientific understanding key challenges key technological advances including disruptive and systemic technological innovations change issues and critical uncertainties and future visions It provides A strong conceptual framework based on a Foresight approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050 Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development is an important book for postgraduate students and researchers construction real estate and property development specialists engineers planners architects foresight and futures studies specialists and anyone involved in sustainable buildings **R&D Investment and Impact in the Global Construction Industry** Keith Hampson, Judy A. Kraatz, Adriana X. Sanchez, 2014-06-20 R and how industry and researchers can manage their efforts to improve productivity whilst addressing the environmental and social needs of their communities Case studies present projects where R D ideas funded by both the private and public sectors have been translated from research into practice or policy and examine drivers successes and barriers to the delivery of R D in industry Based on research from members of the CIB Task Group 85 R D Investment and Impact and concluding with key insights for maximising the impact of R D in the future the book holds valuable lessons for practitioners policy makers and researchers across the international construction industry **Total Sustainability in the Built Environment** Alison Cotgrave, Mike Riley, 2012-12-06 The first textbook in sustainable construction bringing together the whole range of topics from planning through to facilities management in an accessible and engaging way and complete with illustrations and photographs Written by experts and including real world case studies this book can be used as a core text or across several modules The book begins with planning issues after which each chapter charts the different stages of the construction process through to refurbishment of existing buildings This textbook is aimed at undergraduate Built Environment and Construction students or pre degree HND FD students in

Architectural Technology and Architecture Building Surveying General Practice Surveying Urban Planning Property Management Quantity Surveying Construction Management Facilities Management and general programmes focussed on the environment It will also be of interest to professionals working for construction and property companies as there are so few resources that give a complete overview of sustainability in construction *Creating Capacity and Capability: Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice* Mostafa Babaeian Jelodar, Ruggiero Lovreglio, Zhenan Feng, Daniel Paes, Vishal Kumar, Chandana Siriwardana, 2025-08-02 This three volume book is the proceeding of the 46th Australasian Universities Building Education Association AUBEA 2023 Conference which brings together papers on construction and built environment education and practice This particular conference theme Creating Capacity and Capability Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice is closely related to a flagship national research programme funded by the Government of New Zealand known as the CanConstructNZ research programme aiming to balance the capacity and capability in the construction industry and the national pipeline of construction projects The capacity and capability of our construction industry in fulfilling the construction needs of the whole nation are reflected in the national pipeline of construction projects and have long been recognised as one of the main challenges facing the construction sector The practices and education of building and construction play an important role in determining the capacity and capability of the construction industry Within the context of achieving sustainable future and embracing advanced technologies to create capacity and capability in the construction sector various concepts research and innovative development have emerged and taken place This particular conference theme has facilitated more in depth discourses and discussions on the latest ideas and innovation within the building and construction education and practice not only from the Australasian region but also from the wider international community including the USA the UK Brazil South Africa Nigeria China and Sri Lanka The contents of this book will be of interest to academic researchers industry professionals and policy makers alike *Construction Company Management* Abid Hasan, Asheem Shrestha, Kumar Neeraj Jha, 2024-09-23 Construction Company Management will give readers a detailed understanding of the critical aspects of managing a successful construction company in a dynamic and complex construction business environment characterised by intense competition supply chain disruptions and rapid changes in technology regulations client preferences and market conditions The book will introduce readers to different dimensions of construction company management The topics covered reflect current business practices in the construction industry including company strategy and business models stakeholder management contract management resource management risk management knowledge management company finance digital innovation organisational resilience and the regulatory environment The book also includes much needed discussions on ethics integrity and professional standards and diversity equity and inclusion in construction companies It explores the opportunities and challenges relevant to construction company management in

global contexts with the help of case studies from different regions of the world Providing a concise book on this essential subject Construction Company Management serves both students and those educators who teach it in their built environment courses Practitioners will find the theory informed company management practices discussed in the book valuable and useful in their practical contexts *Handbook of Research on Driving Transformational Change in the Digital Built Environment* Underwood, Jason, Shelbourn, Mark, 2021-05-07 The construction industry is amidst a digital transformation that is focused on addressing well documented issues and calls for significant improvements and changes through increased productivity whole life value client focus reduction of waste and being more sustainable The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment This book provides insight from a practice perspective in relation to the client s understanding digitally enabled collaboration interoperability and open standards and maturity capability Covering topics that include digital transformation and construction digitally enabled infrastructure building information modelling collaborative digital education and the digital built environment this book is an ideal reference source for engineers professionals and researchers in the field of digital transformation as well as doctoral scholars doctoral researchers professionals and academicians *Innovations in Energy Efficient Construction Through Sustainable Materials* González-Lezcano, Roberto Alonso, 2024-09-13 The construction industry a cornerstone of modern development must meet the growing demand for new buildings while minimizing environmental impact As global populations rise and living standards improve the need for sustainable building practices has never been more apparent Traditional construction methods and materials contribute significantly to carbon emissions resource depletion and biodiversity loss Addressing these issues requires innovative solutions that balance development needs with environmental stewardship *Innovations in Energy Efficient Construction Through Sustainable Materials* offers a comprehensive response to this pressing problem The book explores pioneering approaches to building design and construction focusing on the use of alternative low carbon materials and advanced technologies It provides an in depth analysis of current and future trends in sustainable construction covering topics such as recycling waste materials utilizing biodegradable resources and implementing energy efficient designs By presenting a variety of research fields and practical applications the book bridges the gap between theoretical concepts and real world solutions making it an essential resource for industry professionals researchers and advanced students *The Elgar Companion to the Built Environment and the Sustainable Development Goals* Alex Opoku, 2024-02-12 Exploring the link between Sustainable Development Goals SDGs and the built environment this erudite Companion provides a comprehensive overview and critical examination of key topics and

complex research issues Structured around the 5Ps of the SDGs people planet prosperity peace and partnerships the Companion suggests potential routes for the future direction of research within this multidisciplinary field of study

Design Economics for the Built Environment Herbert Robinson, Barry Symonds, Barry Gilbertson, Ben Ilozor, 2015-03-26 The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic social and environmental factors Design Economics for the Built Environment Impact of sustainability on project evaluation presents new directions reflecting the need to recognise the impact of climate change and the importance of sustainability in project evaluation The aim is to provide a new approach to understanding design economics in the context of the changing policy environment legislative and regulatory framework and increasing economic environmental and social pressure as result of the sustainability agenda The book follows a structured approach from theories and principles in the earlier chapters to the practical applications and emerging techniques focusing on value and social economic and environmental considerations in making design decisions It starts with the policy context building on various theories and principles such as capital cost value of design and resource based theories the new rules of measurement NRM to explore cost planning the relationship between height and costs key socio economic and environmental variables for design appraisal eco cost value ratio EVR whole life theory and the treatment of carbon emission as external costs productivity and efficiency fiscal drivers and legal framework for carbon reduction procurement and allocation of risks in contracts Case studies practical examples and frameworks throughout reinforce theories and principles and relate them to current practice The book is essential reading for postgraduate students in architecture building and quantity surveying and is also a valuable resource for academics consultants and policy makers in the built environment

Construction Innovation Innovation In The Built Environment Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Construction Innovation Innovation In The Built Environment**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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