



# Value and Waste in Lean Construction

**Edited by Fidelis A. Emuze  
and Tarcisio A. Saurin**



# Value Waste Construction Fidelis Emuze

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## **Value Waste Construction Fidelis Emuze:**

**Value and Waste in Lean Construction** Fidelis A. Emuze, Tarcisio A. Saurin, 2015-11-06 Non value adding activities are otherwise known as waste in the lean construction lexicon. The aim of this collection is to build a common understanding of the role and contribution of value adding activities in achieving stipulated objectives and continuous improvement in construction projects and to contrast this with waste. Although the lean approach to construction projects has been widely covered this is the first book that explicitly provides the link between value and waste in the Architecture Engineering and Construction AEC sector. This internationally researched collection seeks to create a paradigm shift which will shape work processes and future directions for how value is conceptualized and operationalized in both the project management and business aspects of construction. The readers will gain an understanding of The value adding paradigm in construction. How to make value supporting decisions. Waste identification and control in practice. With contributions from South Africa, Brazil, Norway and the USA the implications of this book are globally relevant. This is essential reading for all higher level students of construction management and economics and all professionals interested in value management.

*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.

[Handbook of Construction Safety, Health and Well-being in the Industry 4.0 Era](#) Patrick Manu, Gao Shang, Paulo Jorge Silva Bartolo, Valerie Francis, Anil Sawhney, 2023-05-12 This Handbook seeks to examine and advance current understanding of the confluence of construction health safety and well being and the broad range of Industry 4.0 technologies in use in the architecture engineering and construction AEC industry. Globally the construction sector accounts for more than 100 000 occupational fatalities annually. In many countries reports of work related accidents, injuries and illnesses are commonplace and there is an urgent need to improve the occupational safety and health OSH outlook of the construction sector. The fourth industrial revolution presents opportunities to leverage modern technologies e.g. big data, artificial intelligence, automation, sensors, AR, VR and robotics to improve the poor OSH performance of the construction industry. However embracing such technologies could also induce unintended adverse consequences for the safety, health and well being of construction workers. Therefore the realisation of the opportunities as well as the mitigation of potentially adverse consequences requires research informed holistic insights around the union of Industry 4.0 and construction occupational safety and health management. This cutting edge volume addresses a significant gap in literature by bringing together experienced academics and researchers to highlight the drivers, opportunities and drawbacks of the merging of Industry 4.0 with construction health safety and well being. After a detailed introductory section which highlights

key issues and challenges section one covers the application of a broad range of digital technologies then section two discusses the application of industrial production and cyber physical systems in the context of construction safety and health management Readers from a broad range of AEC backgrounds as well as safety professionals and technologists will come to understand how the technologies are applied and the resulting OSH benefits as well as potential drawbacks **Sustainable Ecological Engineering Design** Lloyd Scott,Mohammad Dastbaz,Christopher Gorse,2020-06-29 Through research and proven practice the aim of the International Conference of Sustainable Ecological Engineering Design for Society SEEDS is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well being of society The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse The SEEDS conference addresses the interdependence of people the built and natural environments and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change

**Climate Emergency - Managing, Building , and Delivering the Sustainable Development Goals** Christopher Gorse,Lloyd Scott,Colin Booth,Mohammad Dastbaz,2021-11-13 Through research and proven practice the aim of the International Conference of Sustainable Ecological Engineering Design for Society SEEDS is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well being of society The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse The SEEDS conference addresses the interdependence of people the built and natural environments and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change

**Using African Epistemologies in Shaping Inclusive Education Knowledge** Mbulaheni Obert Maguvhe,Mfundu Mandla Masuku,2023-07-13 This book thus explores the role of African epistemologies in addressing the myriad challenges posed by the inclusive education system in Africa and other contexts In recent years the shift from special education to inclusive education has had a significant impact on the provision of education and the education system as a whole in Africa The impact has been felt in all institutions of learning from low to high public and private government and across departments of education Inclusive education if shaped correctly by using African epistemologies would empower learners to attain the relevant skills knowledge values and attitudes for their own intellectual growth and personal development

**Building A Body Of Knowledge In Project Management In Developing Countries** George Ofori,2023-06-22 This book presents a state of the art account of the recent developments and needs for project management in developing countries It adds to the current state of knowledge on project management in general by capturing current trends how they widen the content and scope of the field and why there is a need for a specialist body of knowledge for developing countries Eminent experts in this domain address the specific nature and demands of project management in developing countries in the context of its scope and priorities and discuss the relationships between this emerging field and established bodies of knowledge The book also

addresses the future of project management in developing countries and how this might influence mainstream project management This important book will be an essential reference for practitioners students researchers and policymakers engaged in how to improve the effectiveness and efficiency of project management in developing countries **Leadership and Sustainability in the Built Environment** Alex Opoku,Vian Ahmed,2015-02-11 Features research carried out in 5 different continents The book s topic is crucial to the sustainability agenda This is an interdisciplinary book featuring contributions from the fields of construction sustainability and management **The 10th International Conference on Engineering, Project, and Production Management** Kriengsak Panuwatwanich,Chien-Ho Ko,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

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