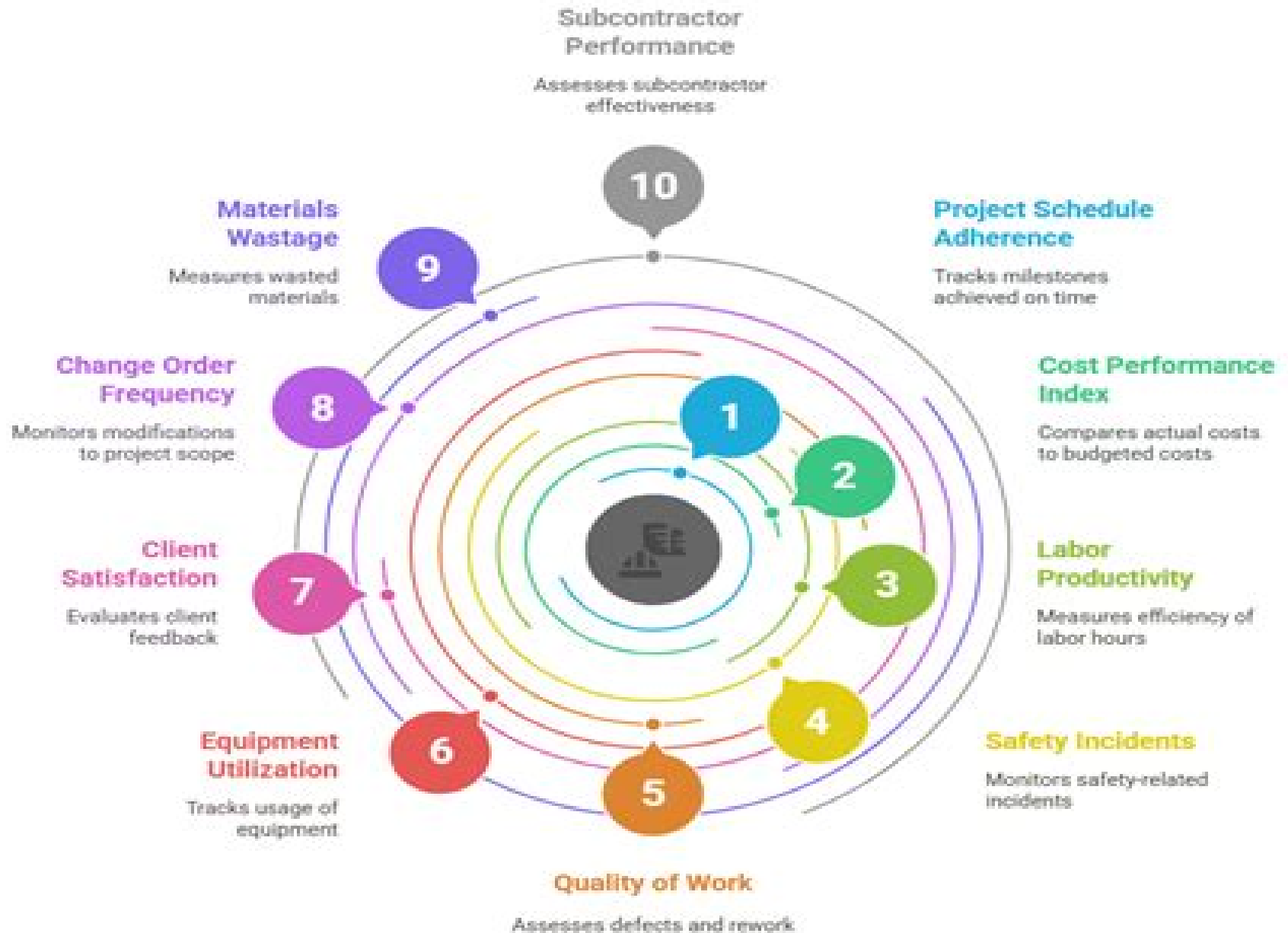


# Key Performance Indicators in Construction



# Construction Projects Key Performance Indicators A Case

**Yijin Wang**



## **Construction Projects Key Performance Indicators A Case:**

**Future Access Enablers for Ubiquitous and Intelligent Infrastructures** Dragan Perakovic, Lucia Knapcikova, 2024-10-15 This book constitutes the refereed post conference proceedings of the 8th EAI International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures FABULOUS 2024 held in Zagreb Croatia during May 9 10 2024 The 14 full papers were carefully reviewed and selected from 35 submissions The papers are organized in thematic sessions on Future access networks Sustainable Communications Computing Infrastructures Environment Applications Scenarios Key Performance Indicators to Measure Design Performance in Construction Nasma Budawara, 2009 The performance of the design activities for a construction project can have a significant impact on the overall performance and efficiency of the project Design activities need to be monitored to measure performance of the design process Performance indicators can be used in this process The Indicators can i measure the degree of success of a project or organization ii predict control and measure the performance of design processes iii benchmark performances of different projects within the same company or with other firms iv track and demonstrate long term development and improvement thereby decreasing design and construction cost and time and increasing the quality of the design product In the context of Canada specific construction performance indicators to assess construction project performance across project phases have yet to be formulated and documented Therefore there is a need to develop such indicators for the Canadian consulting engineering From this perspective the present research introduces practical framework and describes a model that measure the performance of the design activities for Canadian construction projects The main objectives of this research are the following i to identify key indicators that affect the design performance of construction projects ii to develop a model for Key Performance Indicators KPIs to measure the performance of design activities in the Canadian construction industry and iii to examine the possibility of their use in the construction industry The methodology adopted for this research is based on review of the existing literature on design processes review of the existing literature on design performance indicators questionnaire surveys interviews with practitioners and case studies The questionnaires along with the interviews with designers and managers from the Canadian consulting engineering are mainly conducted to explore and indentify indicators affecting the design performance The case studies are used to validate and amend the use of these indicators in measuring project performance at the design stage A web based questionnaire aimed at design and construction firms was constructed The significance and the quantification of design performance indicators are determined using a statistical package The results from the questionnaire were used to develop a generic set of nine groups of design performance indicators for the Canadian consulting engineering However this research focuses on the heavy construction sector The nine groups of indicators have been compared in pairs to identify their level of importance to each other Experts from heavy construction participated in the pairwise comparisons task Built on the results of the survey and experts judgment a Model for Design

Performance Measurement MDPM is introduced The MDPM uses the standard Analytic Hierarchy Process AHP method to assign weights to the scores of the selected indicators to measure a project performance and to compare projects The MDPM is tested for small scale heavy constructions The developed design performance measurement model can 1 predict track and control future performance 2 highlight areas for future improvement 3 enable companies to benchmark the performance of different projects from the same or different companies and 4 document all design performance data **Proceedings of SECON'24** Moncef Nehdi, Rahimi A. Rahman, Robin P. Davis, Jiji Antony, P. E. Kavitha, S. Jawahar Saud, 2024-12-28 This book gathers peer reviewed contributions presented at the 5th International Conference on Structural Engineering and Construction Management SECON 24 held in Angamaly Kerala India on 5-7 June 2024 The meeting served as a fertile platform for discussion sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future The respective contributions address various aspects of numerical modeling and simulation in structural engineering structural dynamics and earthquake engineering advanced analysis and design of foundations BIM building energy management and technical project management Accordingly the book offers a valuable up to date tool and essential overview of the subject for scientists and practitioners alike and will inspire further investigations and research

Total Construction Management John S. Oakland, Marton Marosszeky, 2017-02-17 A convergence of lean management and quality management thinking has taken place in organizations across many industries including construction Practices in procurement design management and construction management are all evolving constantly and understanding these changes and how to react is essential to successful management This book provides valuable insights for owners designers and constructors in the construction sector Starting by introducing the language of total quality lean and operational excellence this book takes the reader right up to the latest industry practice in this sector and demonstrates the best way to manage change Written by two of the world's leading experts Total Construction Management Lean quality in construction project delivery offers a clearly structured introduction to the most important management concepts and practices used in the global construction industry today This authoritative book covers issues such as procurement BIM all forms of waste construction safety and design and construction management all explained with international case studies It is a perfect guide for managers in all parts of the industry and ideal for those preparing to enter the industry *Public Private Partnerships in Transport* Athena Roumboutsos, 2015-07-28 Over the last thirty years Public Private Partnerships PPPs have been used to deliver transport capital projects and services PPPs are complex arrangements that require a multi disciplinary approach in order to assure their success though research on the subject has been fragmented This book fills the gap in existing literature by providing insight into these complex arrangements at their various stages of development Public Private Partnerships in Transport trends and theory is structured to follow the life cycle of a PPP project and strikes a balance between theory and practice Divided into four parts each section highlights major concerns and offers an array of views and

policy recommendations Parts include context for national implementation decision models performance measures and efficiency standards This book includes an expanded discussion on the findings presented discussed and analysed at the closing event of the COST Action TU1001 network on the topic of PPPs in transport The result will be of significant interest to the academic community policy makers and practitioners

**Delivering Value with BIM** Adriana Sanchez, Keith Hampson, Simon Vaux, 2016-03-31 Building Information Modelling BIM is a global phenomenon which is gaining significant momentum across the world Currently there is little information on how to realise and monitor benefits from implementing BIM across the life cycle of a built environment asset This book provides a practical and strategic framework to realise value from implementing BIM by adapting Benefit Realisation Management theory It presents an approach for practitioners aiming to implement BIM across the life cycle of built environment assets including both buildings and infrastructure Additionally the book features wide ranging information about BIM the challenges of monitoring progress towards benefit goals and the greater context of implementation a set of dictionaries that illustrate how benefits can be achieved what the benefit flows are and the enabling tools and processes that contribute to achieving and maximising them a suite of measures that can serve to monitor progress with examples of how they have been used to measure benefits from BIM real world examples from across the world and life cycle phases that show how these benefits can be achieved and information on international maturity and competency measures to complement the value realisation framework Including a blend of academic and industry input this book has been developed in close collaborative consultation with industry government and international research organisations and could be used for industry courses on BIM benefits and implementation for asset management or by universities that teach BIM related courses

The Influence of the Environment on the Successful Completion of Construction Projects Kethy Abraham, 2014-02-03 Research Paper postgraduate from the year 2010 in the subject Environmental Sciences grade A The University of Chicago language English abstract All projects must take place within an environment The environment represents in this case are the external conditions that affect the development of any project Therefore these conditions may be economic political technological or social They make up the environment within which any project operates A project will in one way or the other be impacted by these factors during the course of the project cycle Fewings 2005 These factors will either impact the project negatively or positively and in the long run affect the completion of the project In real scenarios in project management the external conditions are risk factors which affect the completion of the project They act as risk factors because they will affect how the project is carried out In the case that these factors are not mitigated then it is not possible to have a successful project Halpin Senior 2010 People and communities also stay within the environment Development initiatives when initiated have an effect on the people who live within a given environment It is thus paramount these people are taken care of during the process of development in order to ensure minimal impact from these activities Klinger Susong 2006 This has led to the development of concepts such as the environmental impact

assessment reports that are carried out to provide information on the impact of a project on the environment This is done so as to try and shield people from the effects that come from the continued development activities in the natural environment Himes 2008 The prep planning phase to the completion phase all interact with the environment The larger the project the higher the amount of activities involved within them These activities if not controlled could damage the environment to a big extent Construction projects interfere with so many things within the natural environment and this is what leads to resistance when the development of a new building is initiated The resistance first comes from the people who live close to the site Klinger Susong 2006

**Construction Statistics Annual** Great Britain,2008-08-28 This annual publication contains a broad range of statistics on trends in the construction industry in Britain over the last decade together with some international comparisons and features on leading initiatives for the future Issues covered include industry structure new orders output price and cost indices investment planning applications employment trends building materials DTI Construction Innovation and Research Programme key performance indicators and benchmarking

[Ektron Developer's Guide](#) Bill Cava,Bill Rogers,Aniel Sud,2011-01-11 The first book to cover the Ektron content management system CMS Ektron CMS400 NET provides a complete platform that features all the functionality needed to create deploy and manage your Web site The power is in your hands when you use the built in server controls to deploy a site or customize the deployment with the API Authored by a trio of Ektron insiders this book escorts you through the detailed steps of building a prototype company site Upon completion you will have a complete and functional coded Web site that you can use as a template for future projects Introduces the Ektron CMS400 NET as well as the Ektron architecture and includes an in depth explanation of the Ektron framework Assumes no prior knowledge of the Ektron platform Shows you how to install the CMS software dependencies and samples sites Explains how to implement a social network and construct a storefront Ektron Users Guide provides you with everything you need to know about the exciting possibilities of working with this popular and powerful platform

**Trends in Civil Engineering** Xiu Li Du,Jian Jun Zheng,Wei Ming Yan,Yue Li,Jian Wei Zhang,2012-01-24 Selected peer reviewed papers from the Second International Conference on Structures and Building Materials ICSBM 2012 March 9 11 2012 Hangzhou China

**Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,2006 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904

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**Calculating the Influence of Improvement Measures on Corporate KPIs** Andreas Müllner,2007-10 Master s Thesis from the year 2004 in the subject Business economics Controlling grade A University at Albany State University of New York 15 entries in the bibliography language English abstract In order to do justice to the increased requirements on project and business controlling there is a need for a systematic approach tailored to the corporation involved Many corporations have been shown to prioritize improvement measures insufficiently if at all

despite increased requirements on the economic viability of projects Since resources are limited in all companies improvement measures with the highest relative output should be given preference The usual methods used up to now have been either inappropriate or are no longer sufficient The Value Analyzer is a method supported tool for estimating the expected improve ment of key performance indicators as a part of a general improvement in corporate performance This makes it easy to focus on worthwhile measures and supports a general economic calculation to base a go no go decision on before the start of an implementation project Based on general key performance indicators specific scenarios can be created and then altered and or simulated by changing the parameters or factors of influence This is all based on a three level principle in the calculation model Definition of a primary goal KPI key performance indicator for example inventory level Breakdown into part goals KPI elements performance indicator element for example finished products inventory level Determination of appropriate measures for improving the part goal In the calculation of business scenarios that follows the exact impact of enablers and the optimal combination of appropriate measures can be revealed or possible measures can be prioritized according to specific aspects e g effort in implementation The more complex the situation the higher the value added from the Value Analyzer s structured solution

*Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2008 Theses on any subject submitted by the academic libraries in the UK and Ireland **Proceedings of the Institution of Civil Engineers** ,2005

Sustainable Construction Jeff R. Kersey,2004 This book describes the trialling of a set of KPIs for sustainable construction and distils the lessons learned to enable their dissemination to the wider industry **The Architects' Journal** ,2003 HAC ,2000 **Building Services Journal** ,2004 **Fragmenting Work** Mick Marchington,2005 1 Introduction Fragmenting Work Across Organizational Boundaries 2 Inter Organizational Networks Trust Power and the Employment Relationship 3 Blurring the Boundaries to the Employment Relationship From Single to Multi Employer Relationships 4 The Strategic Management of Contracting in the Private Sector 5

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