

# **An Environmental Impact Framework for Improving the Performance of Projects**

**Richard Hannis Ansah<sup>1</sup>, Shahryar Sorooshian<sup>1</sup>, and Shariman Bin Mustafa<sup>1</sup>**

<sup>1</sup>Universiti Malaysia Pahang

Lebuhraya Tun Razak, 26300 Kuantan Pahang, Malaysia.

[richanisah13@gmail.com](mailto:richanisah13@gmail.com)

## **Abstract**

One noteworthy gap in the management of projects has been observed to be considering projects as systems existing in isolation from its surrounding environment. From an examination of the deficiencies in such an approach and how to avoid them, an understanding of the concept of the environment has been provided in this study. While many variables have been found to influence the processes and systems in the construction industry, the management of the environment is deemed to be very essential to project performance. This is because failure or success often depends on variables in the environment and the degree to which these forces could be identified, assessed, and evaluated by managers will have positive or negative influence on project performance. It is very imperative for industry's practitioners to note that organizations do not operate in vacuum and therefore assessment of the opportunities and threats provided by the challenges of the environment is critical for formulating and deploying developmental and environmental response strategies against the forces which inevitably impinges on its decisions, directions, actions, size, health, profitability and performance as a whole. This paper presents the concept of project environment and investigates the environment through PESTLE Framework Analysis.

## **Keywords**

Construction, External Environment, Performance, Project, PESTLE (Political, Economic, Social, Technological, Legal and Environmental)

## **Biography**

**Richard Hannis Ansah** is a Research Assistant at the Faculty of Industrial Management, University of Malaysia Pahang. He holds Postgraduate Diploma in Human Resources Management from ICM, Postgraduate Certificate in Human Resources Management from Management Development and Productivity Institute (MDPI), Ghana, Bachelor of Arts in Political Science and Linguistics at University of Ghana, and currently pursuing Master of Science in Industrial Management at University of Malaysia Pahang. He has published and reviewed a number of journal and conference papers. Hannis has completed research projects with Ghana Statistical Services and University of Ghana. His research interests include; construction, TQM, procurement, supply chain and logistics, operations research, manufacturing, lean, project management, occupational health and safety, human resources management, etc. He has worked as a procurement specialist with a major construction company (SASCO GROUP) in Qatar, research supervisor at Ghana Statistical Services, research and teaching assistant at University of Ghana, among others.

**Shahryar Sorooshian** is a Senior Lecturer at the Faculty of Industrial Management, University of Malaysia Pahang. He had his PhD in Industrial Engineering from Malaysia. He has published a wealth of books, journal and conference papers with honors and awards. Dr. Sorooshian has completed research projects with University of Malaysia Pahang and Taylors University. His research interests include; industrial management, managerial decision makings, business/management performance, operational management, SMEs, simulation, optimization, reliability, scheduling, construction, TQM, supply chain and logistics, E-commerce, balance scorecard, counseling and psychotherapy, manufacturing, lean, among others. He is member of board of some prestigious journals and conferences including; Research Journal of Business Management, Asian Journal of Industrial Engineering, Singapore Journal of Scientific Research, Journal of Applied Sciences, International Journal of Operations and Logistics Management, Iranian Journal of Management Studies, Scientific Journal of Management Science and Engineering, Asia Pacific Journal of Management & Entrepreneurship Research, International Journal of Research

in Business and Technology, The East Asian Journal of Business Management, The Journal of Industrial Distribution and Business, and others.

**Shariman Bin Mustafa** is currently a senior lecturer at the Faculty of Industrial Management, University of Malaysia Pahang. Mr. Sharman holds a PhD from Malaysia. He has published a number of books, journal and conference papers with honors and awards. He has completed research projects with some institutes including University of Malaysia Pahang. His research interests include; industrial management, Solar Cell System Design, Mechanical engineering, manufacturing engineering, simulation, optimization, construction, TQM, construction, operations research, Ship Navigation System, FMEA, among others. He is a member board of a number of journals and conferences. He served as Deputy Dean of the Faculty of Industrial Management, University of Malaysia Pahang.