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Project Management for the Future: Leveraging Technology and Sustainability

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Email: [benjamin.george3@utoledo.edu](mailto:benjamin.george3@utoledo.edu)**ABSTRACT**

The dynamic business landscape is constantly evolving, driven by technological innovations and global competition. This research explores the inadequacy of traditional Project Management (PM) techniques in managing modern project complexities and emphasizes the need for specialized tools and sustainable practices. By examining emerging technologies and sustainable PM approaches, this study offers insights into how project managers can achieve success while promoting economic, social, and environmental well-being throughout the project life cycle.

**KEYWORDS:** Agile, Artificial Intelligence, Blockchain Technology, Digitalization, Information Technology, Inter-organizational Projects, Sustainability

**INTRODUCTION**

A never-ending cycle of change characterizes today's business organizations' environment. (Abbasi and Jaafari, 2018; Wu, 2021). Innovations in technology disrupt industries (Renwick, 2020), alter customer demand, and increase global competition. Managing volatility while ensuring success requires firms to prioritize agility and adaptation in this dynamic environment (Dacre et al., 2019). Effective project management (PM) enables successful firms to put strategy into action.

Despite this, traditional PM techniques are becoming increasingly inadequate. Due to rapid technological advancements, the way projects are planned, completed, and managed must change (Lalmi et al., 2021). The complexity of modern projects requires specialized tools and processes to ensure that resources are allocated effectively, tasks are completed on time, and budgets are met (Dacre et al., 2019).

Furthermore, the requirement for organizations to be sustainable has also become an absolute necessity (El Khatib et al., 2020). Now, project managers need to combine leveraging technical breakthroughs with promotion of positive economic, social, and environmental outcomes. Therefore, throughout the project life cycle, from the planning phase to the final phase, sustainable practices must be incorporated.

Emerging technologies and sustainable PM are the focuses of this manuscript. This research aims to shed light on the future path of the field by investigating the transformative potential of new tools and approaches. Through a thorough examination of the extant literature, this