

# **A Comparative Analysis of Resource Allocation Strategies in Agile versus Traditional Project Management Frameworks**

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**Abstract.** This study investigates the efficacy of resource allocation strategies in agile and traditional project management frameworks. Employing a mixed-methods approach, we conducted quantitative analyses of project outcomes across 150 projects and complemented these findings with qualitative interviews from project managers. Our findings reveal significant differences in the effectiveness of resource allocation strategies, with agile frameworks demonstrating superior adaptability and resource utilization efficiency. This research contributes to the strategic management literature by providing empirical evidence that supports the adoption of agile methodologies in dynamic project environments. The study concludes with recommendations for practitioners on optimizing resource allocation strategies tailored to specific project management contexts.

**Keywords:** resource allocation, agile project management, traditional project management, strategic management, project outcome optimization, methodological comparison, flexibility in management

## **Introduction**

In an increasingly complex and fast-paced global economy, organizations are confronted with the challenge of optimizing project management approaches to ensure effective resource allocation. The relevance of this issue is underscored by the growing adoption of agile methodologies in response to rapid market changes and the need for enhanced flexibility. Traditional project management frameworks, characterized by their linear and sequential processes, are often deemed inadequate in addressing the dynamic nature of contemporary projects. As organizations strive to remain competitive, the differentiation in resource allocation strategies between agile and traditional frameworks has emerged as a

critical area for exploration. The implications of resource allocation decisions on project outcomes are profound, influencing not only the efficiency and effectiveness of project execution but also the overall strategic positioning of organizations within their respective industries. This paper aims to provide a comparative analysis of resource allocation strategies employed in agile versus traditional project management frameworks. The investigation is structured as follows: we begin with a literature review that delineates key theoretical concepts and prior research findings. Following this, we outline our methodology, detailing the quantitative and qualitative approaches adopted in our study. We then present our findings, which illuminate the distinctive advantages offered by agile frameworks in terms of resource allocation. The discussion contextualizes these findings within the broader scope of strategic management and project delivery. Finally, we conclude with practical recommendations for managers seeking to optimize their resource allocation strategies in alignment with the chosen project management framework.

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