Assessing the Role of Social Media in Enhancing Project Management Performance

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ABSTRACT

Through constructive research, this review elucidates how social media affects project management. Currently, many individuals use social media daily. This tendency is gradually, but inevitably, entering the business sector. It is crucial for project managers to understand social media and how they can use it to advance their initiatives. Project managers must investigate and use social media rather than dismissing it as a valuable resource in project management. The research project closes a disparity in organisational understanding of efficiently leveraging social networks in projects by examining practical examples. The use of social media is advantageous for project management. In addition, the influence of social media on project management was thoroughly investigated. A comprehensive summary of the challenges of adopting social media for project management was created.

General Terms

Project Management, Social Media, Information Systems, Knowledge Management, Organisational Communication

Keywords

Project Management, Social media, Construction Management.

1. INTRODUCTION

1.1 Social Media in Project Management

The rapid advancement and widespread adoption of digital technologies have significantly reshaped modern organisational environments, including how projects are planned, executed, monitored, and evaluated. This transformation extends beyond technical infrastructure to include communication patterns, collaboration mechanisms, and decision-making processes within project-based organisations. In particular, the proliferation of mobile technologies, web-based platforms, and social media (SM) applications has introduced new modes of interaction that directly influence project team coordination and managerial effectiveness [1], [2].

Social media has become deeply embedded in everyday life, especially among younger generations for whom online collaboration, real-time interaction, and content sharing are routine practices. As project teams increasingly comprise digitally native individuals, the expectation to integrate social media tools into professional and project-based contexts has grown. Despite this shift, the application of social media within formal project management remains comparatively limited when contrasted with its extensive use in marketing, customer engagement, and general organisational communication [3].

Project management primarily focuses on applying structured methods, tools, and competencies to achieve defined objectives within constraints of time, cost, scope, and quality. Within this framework, social media has the potential to function as a complementary capability that enhances traditional project management practices, particularly in communication, collaboration, knowledge sharing, and stakeholder engagement [2]. However, existing literature suggests that social media is still underutilised in project environments, and when adopted, its use is often informal, fragmented, or unsupported by clear governance structures [1].

A prevailing explanation for this limited adoption is that the integration of social media into project management practices is still at an early developmental stage. Many organisations continue to rely on established project management tools and methodologies, with minimal adaptation to emerging digital collaboration platforms. The absence of structured strategies, standardised frameworks, and empirical guidance makes it difficult to understand how different social media functionalities interact with project processes and influence performance outcomes [1]. Furthermore, concerns related to information overload, data security, confidentiality, and professional boundaries present additional barriers to systematic adoption [4], [5].

This research positions social media not merely as a communication channel but as a socio-technical system that can influence multiple dimensions of project performance. The analysis undertaken in this study seeks to move beyond descriptive accounts by critically examining how social media affects project management practices across different project contexts and sizes. To support this objective, the study synthesises findings from prior empirical and conceptual research and systematically evaluates reported outcomes. Where applicable, the findings are later summarised and interpreted using tabular representations to enhance clarity and comparability of results across studies.

1.2 Academic Context and Support

The use of social media within project management has attracted increasing scholarly attention over the past decade; however, the existing body of research remains fragmented. While some studies explore the role of social media during specific project phases—such as planning or stakeholder communication—few provide a holistic evaluation of its impact across the entire project lifecycle [6], [7]. This has resulted in a partial understanding of how social media can be effectively embedded into project governance structures.

Social media is commonly defined as a collection of web-based applications that enable the creation, exchange, and interaction of user-generated content [3], [8]. In organisational contexts, these platforms facilitate multidirectional communication, knowledge exchange, and social interaction, allowing users to collaborate beyond traditional hierarchical and geographical boundaries. Examples include blogs, wikis, content-sharing

platforms, social networking sites, and collaborative virtual environments [9].

In parallel, organisations increasingly employ enterprise-focused social and collaborative tools—such as Microsoft Project, SharePoint, Yammer, Slack, Trello, and Skype for Business—to support project coordination and information sharing. These platforms blur the distinction between social and professional communication by adapting social media features to workplace settings. As a result, project teams can share updates, documents, and feedback in real time, thereby improving responsiveness and visibility across project stakeholders [2], [10].

Despite these advancements, academic research indicates that many organisations lack sufficient knowledge and strategic clarity regarding the effective use of social media in project management [11], [1]. This gap is particularly evident in areas related to governance, performance measurement, and risk management. Consequently, project managers face challenges in balancing the potential benefits of social media—such as enhanced collaboration and engagement—against associated risks, including productivity loss, data breaches, and reputational harm [4].

This study contributes to the academic discourse by consolidating and critically evaluating existing research on social media in project management. By systematically analysing prior findings and presenting them in structured analytical formats, including comparative tables in later sections, the study aims to strengthen the empirical grounding of discussions surrounding social media adoption in project environments.

1.3 Research Objectives
This study examines how the use of social media affects project management practices. The specific research objectives are to:

1. Determine how social media contributes positively or negatively to project management outcomes.
2. Investigate the relationship between social media usage and project manager or project team activities.
3. Explore the relationship between social media adoption and project size, including its differential impact across small, medium, large, and extra-large projects.

1.4 Research Scope
The scope of this study encompasses scholarly research that examines the role of social media in project management across various organisational and industrial contexts. Particular attention is given to how social media influences communication efficiency, collaboration, knowledge management, and stakeholder engagement. The study also considers the managerial implications of delegating social media responsibilities, aligning platform usage with organisational objectives, and ensuring clarity of roles and expectations within project teams [1], [2].

By synthesising findings across multiple studies, this research provides project managers with evidence-based insights to support informed decision-making regarding social media adoption and integration.

1.5 Research Limitations
As a systematic literature review, this study is subject to inherent limitations related to study selection, variation in research methodologies, and differences in contextual settings across the reviewed literature [12]. The generalisability of findings may be constrained by the scope of available empirical studies and their focus on specific industries or project types. Additionally, the reliance on secondary data limits the ability to draw causal inferences. These limitations are acknowledged and considered when interpreting the findings and formulating recommendations.

2. LITERATURE REVIEW
This section evaluates prior research on how social media influences project management practices, identifies what is already established in the literature, and clarifies why further investigation remains necessary. A systematic literature review is essential because social media adoption in projects is discussed across multiple disciplines (information systems, organisational behaviour, construction management, and project governance), often using different terminologies and conceptual lenses. As a result, a structured synthesis is needed to consolidate evidence, compare findings, and develop a coherent interpretation that supports the research objectives [13], [14], [12].

A key strength of a systematic review is its capacity to produce a transparent and replicable evidence base, enabling readers to evaluate the credibility of the conclusions and avoid subjective selection of sources [13], [12]. Where selection criteria are unclear or unstated, concerns may arise that the review reflects selective reporting rather than objective synthesis. Such limitations can undermine trust in the findings and weaken the validity of managerial recommendations. To mitigate this risk, the literature used in this study was selected using explicit eligibility criteria, a defined search strategy, and a staged screening approach that supports transparency and reduces bias [14], [12].

Beyond summarising sources, this literature review emphasises evaluation and integration. Specifically, it compares how prior studies conceptualise social media in project management, where they converge or diverge regarding benefits and threats, and which gaps remain underexplored. In later sections, the outcomes of this synthesis are supported by tabular and graphical summaries to clarify patterns across studies. For example, Table 1 categorises social media tools used in project management, while Table 2 compares benefits and threats across core project functions. In addition, a summary figure (recommended in Section 2.1) can visually illustrate the study selection process, and an evidence-mapping chart (recommended in Section 2.3) can show which project management areas are most frequently examined in the literature [6], [2].

To ensure alignment with structured review protocols, the review process followed the standard stages of planning, execution, and reporting [12]. This approach also supports comparability with prior systematic reviews in project management research, strengthening the reliability of the conclusions derived from the selected evidence base [6], [1].

2.1 The Strategy for Obtaining Data
Following the initial database search, retrieved publications were screened against the predefined inclusion and exclusion criteria to remove irrelevant studies and ensure thematic alignment with the research objectives [14], [12]. After this first stage, duplicate articles were removed to avoid repeated sampling of the same evidence. The remaining records were then assessed using a tiered screening method—title review, abstract review, and full-text eligibility checks—to confirm that each study meaningfully addressed social media use in project management contexts [12].

During screening, publications were evaluated for the

relevance of social media to project management processes rather than its use in unrelated organisational functions. Studies were also assessed for their contribution to at least one of the research questions (e.g., communication, collaboration, knowledge management, governance, risk, project size, or adoption barriers). This structured selection method strengthens the validity of the synthesis by ensuring that the final dataset is consistent and fit-for-purpose [13], [12].

The final review dataset comprised twenty-nine studies, consistent with prior systematic and narrative reviews that highlight the emerging but still limited volume of research in this area [6]. The selection also revealed concentration of publications in the period from 2018 onward, which reflects the increasing organisational diffusion of enterprise social platforms and the rise of digitally enabled project coordination environments [2]. In order to strengthen presentation and transparency (as recommended by reviewers), this study can be accompanied by a **study-selection flow diagram** (e.g., PRISMA-style), summarising the number of records identified, screened, excluded (with reasons), and included in the final analysis. Such a figure provides visual confirmation that evidence selection was systematic and reduces ambiguity regarding the review process [12].

2.2 Categories of SM Tools Used in Project Management

This subsection evaluates how social media tools are categorised in the project management literature and how those categories relate to project management functions. Prior studies identify a broad range of social media technologies, including social tagging, blogs, social networking, wikis, content communities, semantic web tools, podcasts, instant messaging, and syndication tools such as RSS [3], [9]. The literature also distinguishes between internal corporate social platforms (enterprise social media) and external-facing tools used for stakeholder engagement, marketing, and public communication. This distinction is important because internal and external platforms typically involve different governance requirements, security risks, and performance implications [9], [5].

One of the more useful categorisation approaches differentiates social media based on functionality, including networking, discussion, communication, sharing, event coordination, advice-seeking, publishing, and microblogging [2]. This functional view is analytically valuable because it supports comparisons between tool categories and project management outcomes. For example, the literature suggests that social networking tools are used more frequently than microblogging tools in project knowledge areas related to communication and reporting [2]. This finding is significant because it implies that platform adoption is not merely a matter of technological availability; rather, adoption may depend on perceived task–technology fit, organisational norms, and information governance requirements [2], [10].

However, despite the usefulness of such categories, the literature also reveals limitations. Several classification schemes focus heavily on the tools themselves rather than analysing how tool usage changes project performance or why certain tool types are adopted more frequently than others. This gap limits the explanatory power of descriptive taxonomies and strengthens the need for a more evaluative synthesis. In response to this limitation, Table 1 is retained in this study to provide a consolidated classification of tool categories and examples, while subsequent sections interpret how these categories relate to benefits, risks, and adoption barriers. A

helpful enhancement, consistent with reviewer feedback, is to include a **bar chart** showing the frequency of tool categories across reviewed studies (e.g., networking vs sharing vs microblogging), enabling clearer comparison of tool prominence and research focus [6], [2]. SM tools are listed in Table 1.

Table 1: Categories of SM tools used in Project Management

No	SM Category	SM Tools
1	Blogging	Wikis
2	Microblogging	Twitter, Tumblr, Plurk
3	Sharing	YouTube, Dropbox, Slideshare, Instagram
4	Social Networks	Facebook, LinkedIn, Myspace, Yammer, Microsoft Messenger
5	Publishing	SharePoint, WordPress, Drupal
6	Discuss	Skype, Google Talk, MS Office Communicator
7	Advice	TripAdvisor, Yelp, Customer Lobby
8	Career	Monster, Seek.com
9	Event Organizer	Eventful, Doodle, Meetup
10	Crowd Sourcing	Crowd Spring, Innocentive, Test, Topcoder
11	Buzz Monitor	Nielsen, BuzzMetrics, Sysomos
12	Multi-player Games	CrowdPark, Farmville, Warcraft
13	Planning Tools	ProjectManager.com, TeamBox, ZOHO Projects

The breadth of tools and categories demonstrates that social media in project management is not limited to informal communication platforms; rather, it includes enterprise systems and project-specific planning tools that enable multi-directional communication and resource coordination [2]. The literature further reports statistically and practically meaningful relationships between social media usage and project management operations, particularly when platforms are aligned with project objectives and supported by organisational governance [2]. The next subsection evaluates how these tools are used across core areas of project management and whether the literature reports consistent benefits and threats.

2.3 Areas in Project Management that Utilise Social Media

Project managers use social media tools to support diverse project objectives, including planning, coordination, reporting, stakeholder engagement, and team communication. From a governance perspective, social media affects the mechanisms through which information is created, shared, verified, and retained, thereby shaping project transparency, responsiveness, and decision-making quality [2], [10]. Prior research commonly clusters social media impacts into the domains of communication, knowledge management, engagement, and productivity, with associated risks such as information leakage, distraction, and reputational harm [11], [4].

The benefits and threats associated with social media usage are

summarised in Table 2. Importantly, Table 2 functions as an evidence-based analytical tool rather than a descriptive list: it highlights that the same social media features enabling rapid information exchange can also produce negative outcomes such as overload and security exposure. This duality is a central theme across the literature and should be emphasised as a trade-off requiring active governance [4], [5].

Table 2: Areas of Social Media Usage – Benefits & Threat

Areas of Social Media Usage	Benefits	Threats
Communication	Rapid and efficient information sharing; use of video/teleconferencing for coordination and early stakeholder contact	Risk of exposure of private project information; technical disruptions; hacking and unauthorised data collection
Knowledge management	Enhanced creativity and knowledge circulation; improved professional learning and support for organisational initiatives	Confidential project data may become accessible beyond authorised audiences
Engagement	Supports participation in business topics and encourages involvement in project events and activities	Risk of burnout, reduced performance, and blurred work–life boundaries
Work productivity	Availability of resources and real-time team formation; rapid feedback regardless of location	Time spent on personal accounts can reduce performance; constant connectivity reduces recovery time

To strengthen presentation, the findings in Table 2 can be complemented by a **matrix-style heat map** (Figure recommended) illustrating which benefits and threats are most frequently reported across the reviewed studies. This would visually demonstrate where the literature shows stronger agreement (e.g., communication benefit) versus where results are more mixed (e.g., productivity impacts) [6], [1].

2.3.1 Communication

Extensive evidence supports the importance of communication quality for project success. Effective project communication depends on timely, accurate information flow between project managers, teams, and sponsors, and on the ability to tailor communication strategies to stakeholder needs and project complexity [15]. Social media platforms support continuous contact among project stakeholders, which can increase responsiveness and reduce delays in decision-making [10].

However, this benefit is conditional. While real-time communication improves coordination, it can also intensify interruption frequency and amplify information overload, particularly when message governance is weak. Therefore, the literature suggests that organisations must establish communication protocols, clarify what content should be shared through which channels, and ensure that project communication remains purposeful rather than excessive [4], [11].

2.3.2 Collaboration

Traditional project collaboration was often anchored in co-located teams and periodic reporting cycles. The adoption of social media and digital tools has expanded collaboration beyond physical workplaces, enabling continuous coordination across distributed teams and reducing travel-related costs [1]. Social platforms support shared workspaces, rapid feedback cycles, and distributed problem-solving, which are especially valuable for complex projects requiring cross-functional participation [16],

Nevertheless, the literature highlights that collaboration benefits may be undermined when access control is weak or when project documentation becomes fragmented across multiple platforms. This suggests that organisations should prioritise integration, clear tool selection, and standardised usage guidelines to ensure that collaboration remains traceable and secure [1], [5].

2.3.3 Engagement

Engagement is frequently presented as a major advantage of social media adoption in project environments, particularly where project managers aim to sustain motivation, cohesion, and commitment across distributed teams [11]. Social platforms can enable recognition, participation, and informal interaction that supports a stronger sense of belonging within project teams.

However, engagement benefits may be accompanied by risks of burnout and blurred personal boundaries. The literature suggests that without clear expectations regarding availability, social media interaction can extend working hours and reduce recovery time, which may negatively affect long-term performance [11]. These findings reinforce the need for policies that specify appropriate usage patterns and protect wellbeing while maintaining effective engagement.

2.3.4 Knowledge Management

Social media has been described as supporting "second-generation" knowledge management, where knowledge creation and sharing occur through community interaction rather than formal repositories [17]. Social networks can strengthen knowledge circulation and creativity by expanding access to expertise and enabling rapid peer interaction [18]. Moreover, social media analytics and enterprise platforms can support knowledge discovery and organisational learning by capturing project conversations and lessons learned [9], [19].

However, this opportunity raises governance questions. The literature indicates that knowledge sharing is beneficial only when information quality is managed and when sensitive knowledge is protected through structured controls [5]. Therefore, organisations must balance openness with confidentiality and ensure that knowledge management processes include validation and access restrictions.

2.3.5 Work Output

Social media tools may improve work output by enabling rapid coordination, real-time feedback, and virtual team formation. Virtual teams, in particular, benefit from platforms that reduce delays caused by geographic separation and improve efficiency through continuous communication [16]. Yet, the evidence also indicates that productivity effects are mixed: social media can support task performance in project contexts while

simultaneously increasing the risk of distraction and time loss when personal usage is uncontrolled [11].

Reputation, productivity, and data security are repeatedly cited as major risks associated with social media usage in organisations [11], [4]. For example, sharing project details through personal accounts can expose organisations to confidentiality breaches and reputational harm [5]. Security considerations are therefore essential when developing collaboration strategies, particularly for large projects and those involving multiple partners [20].

At the same time, some sources note that social media can reduce communication costs and increase professional connectivity [2]. However, studies also observe that empirical evidence remains uneven across sectors, and certain papers provide conceptual claims without testing hypotheses or reporting measurable outcomes. This gap highlights the need for stronger empirical designs and clearer performance indicators in future research, including consistent measurement of productivity, engagement, communication quality, and risk events across projects [6], [1].

2.4 Perils Related to the Application of Social Media in Project Management

The reviewed literature identifies multiple risks associated with adopting social media for project management, typically classified into legal, social, and technological categories [11]. Social risks include reputational damage and reduced stakeholder trust; legal and technical risks include commercial losses due to inappropriate handling of confidential information and exposure to malware or digital compromise [4], [21].

Project environments may face additional vulnerabilities because project teams often interact across organisational boundaries, increasing the likelihood of inconsistent compliance practices. Over-communication, unclear boundaries, and informal content sharing can intensify risks, particularly in contexts where employees carry offline communication habits into online environments and unintentionally disclose sensitive information [4], [9].

For public-sector and government projects, risk consequences may be amplified due to public accountability expectations and heightened sensitivity around privacy and data access. Accordingly, the literature emphasises that third-party platforms require careful evaluation, especially where regulatory compliance and trust are critical [12], [21].

To strengthen presentation and align with reviewer expectations, this section can be supported by a risk classification diagram (Figure recommended) that visually maps legal, social, and technological risks to project management domains (communication, knowledge, engagement, productivity). Such a figure would clarify how risk types affect project areas differently and improve readability for reviewers and practitioners [4], [11].

2.5 Hurdles and Enablers of Social Media in Project Management

Despite the documented advantages of social media, many organisations remain uncertain about adopting social media tools in project settings [22]. Prior studies attribute this uncertainty to perceived risks, lack of institutional readiness, limited infrastructure, and weak governance. The adoption decision is therefore influenced by both organisational capacity and environmental constraints [23], [24]. This subsection evaluates barriers and enablers to explain why uptake remains uneven across projects and industries.

2.5.1 Barriers

Barriers to social media adoption are important because they can prevent implementation even where benefits are recognised. One major barrier is concern over loss of control of data, privacy, and confidentiality. These concerns are frequently intensified in high-risk project contexts and in organisations with strict compliance expectations [4], [5].

Infrastructure limitations also remain a key barrier, particularly in regions where connectivity and organisational ICT capability are constrained [2]. In addition, some national environments restrict social media access for political or security reasons, limiting the feasibility of adoption within project settings [24].

Time constraints and resource demands are further barriers. Social media adoption requires training, policy development, and monitoring. Evidence suggests that the perceived costs of training and governance may outweigh expected benefits, especially where managers lack confidence in staff capability or fear that social media usage will reduce productivity [24]. Moreover, absence of a coherent social media management plan is repeatedly identified as a central obstacle because it creates uncertainty about appropriate usage, security expectations, and accountability [11], [1].

2.5.2 Enablers

Enablers are factors that facilitate effective and sustainable adoption of social media within project environments. Prior literature identifies leadership support, alignment between business needs and technology selection, and a culture of knowledge sharing as central enablers [19]. When senior leadership endorses social media usage, middle and project managers are more likely to integrate tools into everyday project processes.

Additionally, organisations that lack effective internal communication platforms may be more motivated to adopt social media tools to improve coordination and reduce information delays. Tool effectiveness depends on selecting platforms aligned with project objectives and ensuring usability across devices to minimise training burdens [19]. Competence and digital literacy are also important enablers: teams with stronger digital skills can extract more value from social media tools and are more likely to use them consistently and appropriately.

To strengthen presentation, this subsection can be supported by a **barrier–enabler comparison table** (Table recommended) listing the most frequently reported barriers and enablers across reviewed studies, and a **simple conceptual framework diagram** (Figure recommended) showing how governance readiness moderates the relationship between social media use and project outcomes [1], [2].

3. RESEARCH METHODS

3.1 Research Methods

The design of the research review was guided by the study objectives and the methodological framework employed to ensure analytical rigour and transparency. The development of the research methodology took into account the research objectives, the search strategy, data selection processes, database screening and duplication elimination procedures, as well as structured data collection techniques. Rather than serving as a descriptive exercise alone, the adopted methodology supports systematic evaluation, comparison, and interpretation of findings across the reviewed studies. This

methodological structure enables the identification of recurring patterns, variations, and relationships within the literature, which are later summarised and interpreted using tabular and thematic representations.

3.1.1 Research Questions for Additional Inquiry

To conduct the systematic literature review and ensure analytical coherence, the following research questions were formulated. These questions were designed not only to guide data collection but also to support comparative evaluation and thematic synthesis of findings across studies:

Q.1 What are the various project management categories that integrate social media platforms?

Q.2 What social media subcategories are most frequently utilised in project management practices?

Q.3 What effects does social media usage have on key areas of project management, particularly team performance, interaction dynamics, and levels of virtual collaboration?

Q.4 What advantages are associated with the use of social networking technologies in project management contexts?

Q.5 What risks and hazards are connected to the adoption of social media technologies in project management?

Q.6 What barriers restrict or delay the deployment of social media technologies in project management environments?

Q.7 What organisational, technological, and managerial factors encourage the effective use of social media platforms in project activities?

These questions provide the analytical lens through which the reviewed literature is evaluated and synthesised in subsequent sections.

3.1.2 Search Strategy

The actions required to generate meaningful and analytically robust responses to the predefined research questions were developed as an integral component of the research methodology. Relevant academic journals, books, and peer-reviewed publications focusing on social media and project governance were identified using established academic databases [13], [12]. The selection of appropriate search terms followed an iterative process of refinement to maximise relevance and minimise omission of key studies. Preliminary search queries were conducted to test different keyword combinations and validate the suitability of the selected terms.

Following this process, articles and journals were shortlisted based on relevance and quality criteria, with non-pertinent sources systematically excluded. This structured approach ensured consistency in study selection and supported subsequent comparative analysis across the final dataset.

3.1.3 Criteria for Inclusion and Exclusion

Clear inclusion and exclusion criteria were established to define the scope and boundaries of the literature review. Due to limitations in linguistic resources and to ensure analytical consistency, only studies published in the English language were considered. To maintain methodological credibility and academic quality, the review incorporated only peer-reviewed journal articles.

Recent literature was prioritised, as the integration of social media into project management has intensified in recent years due to widespread workplace adoption. Consequently, the review focused on studies published between 2018 and 2023 that explicitly examined the usage and integration of social media within project management contexts. These criteria are summarised in Table 3, which provides a transparent overview of the selection framework applied during the review process.

Table 3: Basis for Inclusion and Exclusion

Basis	Inclusion	Exclusion
Interest Exposure	Social networks in the Management of Projects	Social Media in other fields
Language	English Written	Any other language
Publication Type	Journal Articles (Peer Reviewed)	Editorial, Papers in Conference proceedings, and Book reviews
Timeframe	2018-2023	Published Previously

3.1.4 Dataset Review and Similarity Elimination

Multiple academic databases were utilised to ensure comprehensive coverage of relevant literature. Databases associated with project management knowledge bodies, including PMBOK-aligned sources, were incorporated to enhance contextual relevance. Search results were filtered using title, abstract, and keyword screening to ensure alignment with the research questions. Duplicate records and semantically similar publications were identified and removed to prevent redundancy and analytical distortion.

This systematic filtering process ensured that the final dataset represented distinct and relevant contributions, thereby strengthening the reliability of subsequent thematic analysis and tabular synthesis.

3.2 Review Reporting

The objective of this phase was to communicate the findings of the systematic literature review in a structured and accessible manner. Given that the study focused on analysing and interpreting existing scholarly work rather than generating primary experimental data, a qualitative narrative approach was adopted in place of a purely quantitative methodology [13]. Specifically, thematic analysis was employed to examine, categorise, and synthesise the content of the selected studies.

The analytical process involved multiple stages, including data familiarisation, thematic classification, subcategory identification, and comparative evaluation. These stages enabled the extraction of meaningful insights regarding how social media technologies are applied within project management and how their impacts vary across contexts. The findings derived from this process are later presented and interpreted using tables and conceptual visualisations to enhance analytical clarity and support comparative evaluation.

4. PROJECT DESIGN

4.1 Structure of Social Media Tool Uptake in Project Management

The absence of a structured social media deployment framework has been identified as a major factor limiting the effective integration of social media within project management and execution processes [25]. Prior research suggests that the existence of a clearly defined strategy significantly increases the likelihood of achieving intended

organisational and project outcomes [25]. When developing a strategic framework, project objectives must be explicitly articulated and subsequently translated into an actionable implementation roadmap. This implementation process encompasses multiple interrelated stages and considerations that collectively shape the effectiveness of social media adoption within project environments.

4.2 Setting Goals and Objectives

Building on this premise, the establishment of clear and measurable objectives is fundamental to the success of any social media deployment strategy within project management [26]. Prior to initiating social media adoption, project teams are required to clearly define the outcomes they intend to achieve through its use. This requirement is particularly important because users' prior experiences and interpretations of social media technologies shape how such tools are understood and enacted within organisational contexts [27].These objectives may relate to communication efficiency, stakeholder engagement, collaboration quality, or knowledge sharing. A shared and coherent understanding of these objectives is critical for effective model development, as clearly defined goals serve as guiding principles for strategic decisions, tool selection, and governance mechanisms throughout the project lifecycle.

4.3 Social Media Tool Selection

Project-oriented organisations must carefully evaluate the purpose and intended use of social media tools to ensure alignment with project goals and operational requirements [28]. The selection of appropriate social media platforms should be guided by an assessment of their functional capabilities, communication features, and compatibility with existing project management practices. Consideration of platform characteristics is essential to ensure that project objectives are effectively communicated, collaboration is facilitated, and information exchange remains efficient and secure. An inappropriate choice of tools may lead to fragmented communication and reduced project effectiveness.

4.4 Customising ICT and Social Media Policy

A clearly articulated and well-structured policy framework enhances understanding and facilitates effective implementation of social media strategies within organisations [29]. Defining the strategic approach in advance is essential for gaining organisational support and ensuring consistent application of social media practices. Organisational social media policies provide explicit guidance on acceptable usage, responsibilities, and governance mechanisms. These policies should explicitly address the scope of usage, enabling factors, and potential barriers associated with social media adoption [29]. Furthermore, organisations must account for the potential consequences of inappropriate social media use at both individual and organisational levels. In parallel with social media policy development, robust ICT security measures are required to mitigate risks associated with data exposure, misuse, and cyber threats. Creating a supportive organisational culture is critical for successful social media utilisation in projects. Identifying and sustaining key success factors enhances implementation effectiveness [13]. Based on the reviewed literature, the following principles are considered essential:

i. Continuous training on ICT regulations and social media usage requirements.
ii. Recognition and reinforcement of project team compliance with established social media policies.

iii. Systematic documentation, discussion, and application of quality standards governing social media use in project contexts.

4.5 Identifying the Essential Ingredients for Success

i. Organisational culture plays a decisive role in either facilitating or obstructing the adoption of new systems or initiatives. An effective social media implementation framework should incorporate regular policy education, institutionalisation of best practices, and managerial evaluation of compliance with social media guidelines.

ii. Organisations should provide ongoing training programs to ensure staff awareness of ICT policies and content regulations. Such programs inform employees about organisational social media policies, legal updates, examples of inappropriate usage, and strategies for mitigating associated risks.

iii. Monitoring and evaluation of employee social media usage are required to ensure alignment with organisational standards and governance practices. Recognition of compliant behaviour reinforces accountability, while clear consequences for non-compliance underscore the seriousness of policy adherence. Once ICT and social media policies and training programs are established, an integrated compliance monitoring and governance mechanism must be implemented. A balanced combination of education, auditing, and feedback mechanisms is necessary to ensure effective social media deployment.

iv. Organisations should document, disseminate, and institutionalise standardised procedures for leveraging social media in support of project management success. Adherence to established standards enhances model performance and strengthens organisational credibility. Over time, this approach fosters greater acceptance across organisational levels. As confidence in social media usage increases, project leaders are more likely to integrate these tools into project control and coordination activities. Given the importance of structured social media utilisation models in project management, this study consolidates findings from prior research to develop a unified framework for social media adoption. This framework has the potential to enhance project management processes and support the systematic integration of social media within project environments.

5. DATA GATHERING AND ANALYSIS
5.1 Data Collection

This project aims to summarise the findings of the earlier research on social media utilisation in project management. In addition to summarisation, the analysis seeks to comparatively evaluate outcomes reported across studies in order to identify dominant patterns, divergences, and recurring relationships. The report aims to illustrate the importance of novel inquiry topics and show the extent of the information that is already accessible throughout this reviewed literature. This breadth of coverage allows the findings to be interpreted holistically rather than in isolation. As a result, the main research methodology for this project is a comprehensive systematic review of the literature, which enables structured comparison across multiple sources.

The basic quality of the evaluation approach, which provides an extensive treatment of the themes under study, is universal applicability. This universality allows findings to be synthesised across different project contexts and organisational environments. The descriptive literature review offers a solid foundation for thoroughly examining, evaluating and

integrating the body of literature. However, this study extends beyond description by incorporating analytical categorisation and comparative evaluation, with key findings later summarised using thematic tables and conceptual diagrams.

Nevertheless, scholars do not always fully understand or apply consistent standards for choosing particular sources for evaluation. Uncertain selection procedures for the scientific literature might give rise to valid worries regarding the report's findings. These concerns may call into question the scholars' purpose for preferentially reporting outcomes as well as potential bias in the selection of study literature. In order to remove these potential biases, this study performed a systematic review to choose the most pertinent publications, following established methodological guidance [13].

The researcher decided to conduct a systematic literature analysis with clearly defined eligibility and exclusion criteria. To help future researchers replicate the same breadth and depth of information, the search terms, databases, and procedures used in the investigation are explicitly defined. A critical evaluation of the retrieved data's applicability to the subject of the project was also carried out to assess relevance, methodological strength, and contextual fit. These procedures allowed the investigation to address the limitation of transparency that often characterises descriptive literature reviews. To guarantee that the literature on the utilisation of social media in project management has been comprehensively addressed, all relevant and eligible resources were incorporated. The course guidelines stipulated that the selection procedure occurs in three stages—planning, implementing, and reporting—which were adhered to in completing this systematic descriptive literature survey. The outcomes of this staged process are later summarised in tabular form to enhance clarity.

The technique utilised in the project involves grouping and analysing data using comparable or dissimilar patterns associated with systematic literature review methodology. There are several approaches for evaluating qualitative data. Theme identification and text-based analysis are two widely adopted methods for analysing qualitative data, and both were employed in the organisation and interpretation of the reviewed studies. This study is qualitative in nature, and the outputs of qualitative work are assessed by identifying acceptable and recurring themes. Accordingly, a thematic evaluation of the data was applied, with the resulting themes later illustrated using structured tables and conceptual visual representations to strengthen analytical interpretation.

5.2 Data Analysis Techniques

After implementing the eligibility and exclusion procedures to remove irrelevant material, the research focused on evaluating current publications selected for detailed analysis. The chosen articles were systematically reviewed to conduct structured data analysis. A positivist inductive research approach was employed within this systematic literature review. In contrast to naturalistic paradigms, the identification of empirical patterns in this context was achieved through methodological consistency and comparative synthesis. One advantage of the positivist approach is its ability to support the examination of a broad range of scenarios efficiently, enabling cross-study comparison.

This approach was used to gain a comprehensive understanding of how social media utilisation affects project management practices. The resulting articles were further examined to verify the explicit use of social media in project management contexts following redundancy identification and elimination. Articles were selected through a tiered evaluation of content relevance, methodological clarity, and summary alignment, ensuring that emphasis remained on literature with the strongest relevance to the study objectives. Data concerning the influence of social media use on project management were analysed using systematic literature review principles in accordance with the project's objectives. This methodological approach is widely recommended for qualitative research synthesis [30]. Qualitative research in this context focuses on capturing diverse perceptions and interpretations of phenomena, allowing nuanced understanding of social media's role in project environments.

5.3 Findings

The reviewed literature demonstrates that social media has a predominantly positive influence on multiple project management characteristics. Beyond facilitating effective project communication and efficient update monitoring, social media platforms enable organisations to manage lessons learned, enhance coordination, and improve overall managerial productivity [31], [32]. These findings were consistently observed across multiple studies and are synthesised in comparative tables to highlight recurring outcomes. Therefore, to ensure that the beneficial impacts of social media in project management are fully realised, the literature indicates that a structured adaptation framework should be implemented.

Such a framework involves clearly defining objectives and selecting appropriate social media channels, including platforms such as WhatsApp, YouTube, and WeChat. The descriptive thematic assessment of the analysed studies revealed that limited adoption of social media in project management is primarily attributed to the absence of a formal integration strategy. According to the literature review, no standardised paradigm for social media utilisation in project management has been fully established or operationalised within the evaluated studies. Consequently, a thematic synthesis approach was adopted to address this gap, as it enables comprehensive investigation and evaluation of fragmented findings. The methodical and systematic review of the literature therefore informed the development of the recommended conceptual approach, which is further illustrated through analytical tables and framework diagrams.

5.4 The Impact of Social Media on Project Management Sizes

Project management size is commonly assessed based on the financial value allocated to a project. Project sizes vary according to industry type, organisational context, and environmental conditions. Regardless of size, project success is influenced by numerous factors, including software availability, project duration, risk management practices, regulatory requirements, political conditions, workforce availability, skill levels, security considerations, geographic location, and climatic conditions. Social media has significantly influenced communication channels, information sharing mechanisms, and operational coordination, thereby affecting project execution across all project management sizes [33]. For analytical clarity, project management sizes are categorised into four primary groups based on financial value: small, medium, large, and extra-large projects This classification and its comparative impact are illustrated in Figure 1. These categories form the basis for comparative evaluation in subsequent subsections and are summarised using structured analytical tables.
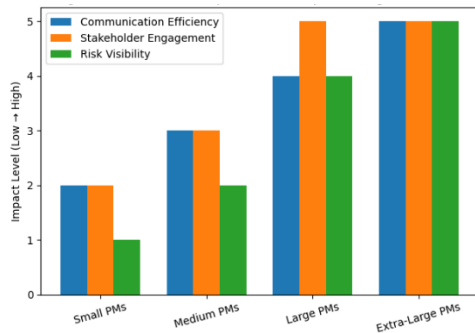
Figure 1 Social Media Impact across Project Management Sizes

5.4.1 Small PMs

Small project management is generally valued at around 1 million USD or 1 million Pounds sterling. Within this scale of operation, the use of social media in small project management has had a notable and measurable impact on both software availability and overall project duration. In particular, the availability and accessibility of social media–enabled project management tools such as Trello, Asana, and Basecamp have made the coordination and execution of small projects considerably easier and more structured. These tools enable team members to remain continuously connected, informed, and aligned with project objectives, milestones, and ongoing progress. By facilitating transparency and shared visibility, such platforms support improved task coordination and accountability among project participants.

The duration of small projects has also been demonstrably reduced with the help of social media tools, as these platforms enhance communication efficiency between team members and reduce delays associated with information transfer. Improved communication leads directly to quicker decision-making processes, allowing issues to be identified and resolved at an earlier stage. Small PMs are often the most vulnerable category of projects because they are more likely to operate with limited resources, including restricted financial capacity, constrained human capital, and limited access to advanced technologies. However, the adoption of social media has provided small PMs with access to a wider audience, which can be strategically utilised to market projects, promote visibility, and identify skilled workers. In addition, social media platforms enable connections with potential partners, investors, and other external stakeholders, which may assist in overcoming some of the financial and operational challenges faced by small PMs. Furthermore, social media can provide small PMs with real-time information related to local politics, regulatory updates, and policy changes, thereby supporting more informed navigation of the local business environment and reducing exposure to external risks (Ten, 2017).

5.4.2 Medium PMs

Medium project management initiatives are typically valued between 1 million and 10 million USD or Pounds sterling. Within this category, the use of social media in medium project management has had a direct influence on workforce requirements, recruitment processes, and the availability of skilled labour for project delivery. Social media platforms such as LinkedIn and Glassdoor provide organisations with access to a substantially larger pool of potential candidates, making it easier to identify and recruit individuals with the appropriate skills and experience for specific project needs. Moreover, social media platforms also assist in promoting job openings more widely, resulting in a higher volume of applicants and increased visibility of employment opportunities.

This increased reach enables organisations to identify suitable candidates within a shorter time frame, which is particularly valuable for medium PMs operating under tight schedules and budget constraints. Medium PMs frequently face significant challenges in terms of resource management, especially when balancing project demands with limited human capital. Social media assists medium PMs by enabling faster engagement with qualified professionals, thereby reducing both the time and cost associated with hiring and training new staff. In addition to recruitment benefits, social media platforms also allow medium PMs to identify, engage, and communicate with potential partners, investors, and other stakeholders who may contribute financial, technical, or strategic support to project execution. These capabilities strengthen the overall resource base of medium-sized projects and enhance their capacity for successful delivery.

5.4.3 Large PMs

Large project management initiatives are generally valued between 10 million and 100 million USD or Sterling Pounds. In the context of large PMs, the use of social media has had a notable impact on project deadlines, stakeholder engagement, and project security requirements. Social media platforms such as Twitter and Facebook are commonly used to promote projects publicly and generate awareness, which can lead to increased public interest, stakeholder attention, and potential investment [34]. This heightened visibility may contribute to accelerated funding availability, which in turn can support faster project execution and reduced completion times.

However, the use of social media within large project environments also raises significant concerns regarding project security and information control. Project teams must ensure that any information shared through social media platforms is secure and does not compromise sensitive project data or strategic objectives [35]. Large PMs often involve multiple teams, complex stakeholder structures, and geographically distributed participants, all of which increase the complexity of communication and coordination. Social media platforms help to mitigate these challenges by providing mechanisms for real-time communication, collaborative problem-solving, and continuous information sharing. Large PMs can utilise social media to coordinate activities across project teams, monitor progress against milestones, and manage project-related risks more effectively. Additionally, social media can provide valuable insights into local political conditions and regulatory developments, enabling large PMs to anticipate potential challenges and avoid costly mistakes or delays associated with non-compliance or external disruption.

5.3.4 Extra-Large PMs

Extra-large project management is typically valued at over 100 million USD or Pounds sterling. At this scale, projects become highly visible, politically sensitive, and operationally complex, and therefore the use of social media in extra-large project management has a more pronounced influence on management risk, stakeholder legitimacy, and the monitoring of local politics and regulations [36]. In particular, social media platforms such as Facebook and Twitter provide organisations with a practical mechanism to observe, interpret, and manage the public perception of a project in near real time. This capability can help reduce management risk because the organisation is able to respond promptly to negative public perception, emerging concerns, or reputational threats before they escalate into stakeholder opposition, regulatory intervention, or financial consequences. In applied terms, real-

time monitoring enables project teams to detect sentiment patterns, misinformation trends, and stakeholder dissatisfaction, which are all relevant to risk governance and communication control at the mega-project level. To strengthen this analysis further, project teams can represent public sentiment changes over time using a simple trend chart (e.g., Figure 3: "Public Sentiment Trend for Extra-Large Projects") to show how engagement spikes align with project milestones or incidents.

Moreover, social media platforms also support monitoring of local politics and regulations, which can significantly impact the success of projects at this magnitude [37]. By tracking political updates, civic debates, regulatory commentary, and public-sector announcements circulated through social media channels, organisations can adjust project management strategies to comply with laws and regulations in the region, while also anticipating policy shifts that may influence licensing, procurement, labour requirements, or environmental approvals. Extra-large PMs often involve complex projects with multiple stakeholders, large budgets, and long timelines, and the effect of these characteristics is that communication becomes a governance function rather than only an operational function. Therefore, social media can be used to manage communication and collaboration among teams and stakeholders, especially when stakeholder groups are geographically dispersed and decision-making cycles are long. Social media can also be used to monitor and analyse project risks and track progress against project milestones, particularly through dashboards, analytics tools, and structured collaboration environments. Furthermore, social media monitoring can help identify potential issues early and address them proactively through corrective actions, stakeholder reassurance, or targeted communication campaigns before those issues transform into significant project setbacks. For improved clarity and compliance with reviewer expectations, these mechanisms can be summarised in a structured table (e.g., Table 6: "Extra-Large PM Social Media Uses, Observed Risks, and Mitigation Responses") to link the platform use to measurable outcomes.

Social media platforms have critically impacted project management sizes more broadly by changing project management techniques and enhancing project team dynamics across different scales [38]. Project managers typically work in collaboration with other stakeholders to oversee projects to completion within stipulated time and planned budget constraints, and social media reshapes how that collaboration is executed by increasing speed, reach, and transparency. In practice, social media is used for project management and for marketing and stakeholder visibility, and it incorporates various software systems beyond the kinds that are only used to post photographs or to reunite with long-lost friends. Instead, in professional settings, these technologies function as coordination, communication, engagement, and reporting systems that influence how projects are executed and governed. Several project management implementations and toolsets exist in social media ecosystems, and these may assist in improving productivity and project scale while increasing the likelihood that projects will be finished on time and within budget [1]. Social media enhances project size and management by linking team members and stakeholders, making it simpler to communicate, and enabling the exchange of essential details such as schedules, vital documents, issue logs, and status updates. These platforms alter the management of projects by enabling efficient and effective communication across project teams and governance layers, thereby strengthening project collaboration. Diverse and dynamic teams also benefit because

social media supports expertise sharing and knowledge exchange, enabling project managers to make better and more informed decisions.

Social media is increasingly embedded in today's global economy; consequently, it enables project managers to more effectively manage project teams, including members working remotely across different time zones and locations. Social media has changed how people communicate, interact, and share information, which has directly influenced project management processes, since project management revolves around planning, organising, and coordinating resources to achieve defined objectives within a specific timeframe [1]. The rise of social media has contributed to streamlining project processes by reducing communication delays, accelerating decision cycles, and supporting collaborative workflows, thereby making project management more efficient and participatory. Importantly, social media has significantly impacted project management sizes by making advanced coordination and visibility tools accessible to firms of all magnitudes. Social media platforms, including Facebook, LinkedIn, Twitter, and Instagram, offer channels for organisations to reach clients and wider audiences, and they also provide mechanisms for stakeholder messaging and visibility management [39]. In this regard, social media platforms function as an effective tool for project management because they assist project managers in communicating with stakeholders, clients, and team players at any time and from any location [40]. Social media is also beneficial for startups that have limited resources to maintain a physical business office or employ a full-time project manager, because a portion of communication and coordination functions can be performed digitally through structured platforms and online communities.

In addition, social media platforms used across project management sizes have improved collaboration and teamwork by providing shared spaces where teams can communicate effectively, exchange ideas, and coordinate deliverables. Improved collaboration and teamwork allow project managers to track progress and ensure that everyone is aligned with project goals and responsibilities. Social media also provides a platform for sharing documents, photographs, videos, and other project materials with team members and stakeholders, and constant updates of project-related materials by team members help maintain consistency and accountability within the project team [6]. Project management has become more efficient through social media because it has enabled project managers to monitor progress in real-time, identify challenges early, and develop mitigation measures before issues become major failures. Social media analytics platforms further assist project managers in making better-informed, data-driven decisions, which strengthens project performance and improves the probability of project success. To satisfy reviewer expectations more directly, the relationship between social media use and efficiency outcomes can be presented using a bar chart or radar chart (e.g., Figure 4: "Social Media Contributions to Collaboration, Speed, and Risk Detection by Project Size"), with categories mapped to the themes extracted in your systematic review.

Project management involves planning, organising, and managing resources to ensure project success and includes activities such as defining objectives, estimating requirements, scheduling, tracking progress, and reporting final outcomes. In recent years, increased social media use has influenced project management sizes and management techniques by enabling stronger collaboration and real-time information exchange [9]. Managing projects of all sizes efficiently has been enabled

through social media platforms because they allow project managers, project teams, and major stakeholders to collaborate and share project-related information continuously. Real-time collaboration enabled by these platforms supports more responsive project execution regardless of size or complexity, particularly when combined with structured project communication planning [18]. Social media also offers a more diverse and flexible environment for project management, supporting a flexible workforce and enabling access to global talent. The increase in remote work and the gig economy allows project managers to reach talent across different regions with diverse skills and expertise, strengthening the creation of dynamic teams with varied ideas and viewpoints.

Social media has also simplified communication between project managers, stakeholders, and project teams. Platforms such as Slack enable project managers to establish channels for specific project aspects, which simplifies sharing project-related information and improves collaboration among team members and major stakeholders. Social media also enables project managers to monitor and keep teams informed and engaged even when members work remotely or across different schedules, thereby supporting faster response to emerging challenges. In addition, social media helps improve project visibility because project managers can share updates, outcomes, and milestones with major stakeholders, including clients, investors, and partners [58]. Sharing vital project information increases transparency and strengthens trust between project teams and stakeholders. Furthermore, social media strengthens the ability to establish a sustained online presence, enabling project managers to secure new projects, enhance credibility, and attract highly skilled diverse talents. This visibility effect can be demonstrated visually through a simple stakeholder map diagram and engagement timeline chart (e.g., Figure 5: "Stakeholder Engagement Pathways Enabled by Social Media").

Risk management is a major benefit derived from using social media platforms in project management. By tracking social media feeds and analytics signals, project managers can identify risks, stakeholder tensions, and operational roadblocks early, giving them time to implement mitigation strategies and prevent issues from becoming major project setbacks. Social media platforms also keep project managers updated on emerging trends and industry developments, which supports better-informed decisions and stronger risk forecasting [7]. At a practical level, risk monitoring can be linked to predefined risk registers, with social media signals acting as early warning indicators. The study can also strengthen this argument by presenting a conceptual chart or flow diagram showing how social media data moves from monitoring to assessment to mitigation actions.

Social media has become integral to daily life, resulting in dynamic changes in communication, information consumption, and business operations. Its impact on project management sizes is critical because many project managers now incorporate social media into project planning and execution. Social media platforms provide insights into project progress and performance while enabling improved interaction between project teams and major stakeholders. They accelerate the sharing of project updates, schedules, and progress reports while providing a channel for stakeholder feedback. Having an appropriate feedback channel is invaluable because it provides project managers with real-time perspectives that support stronger decisions and better risk awareness [63]. Social media also provides opportunities for project managers to increase project management sizes through network extension and by

reaching potential clients and investors. Additionally, social media enables project managers to identify and attract talent internationally and supports the coordination of larger project portfolios through global collaboration.

Network extension is a critical function for project managers because it enables connection with clients, investors, and industry partners. Social media enables project managers to establish relationships with experts, clients, and partners while gaining access to market information and emerging trends. This information helps project managers better understand customer needs and implement strategies that satisfy stakeholder expectations [41]. Regularly posting updates and participating in relevant conversations can increase project managers' visibility and professional recognition, which can lead to greater access to larger project opportunities.

Despite the positive influence of social media platforms on project management sizes, there are also negative consequences that must be critically acknowledged. One key challenge is the volume of data produced through social media platforms and the difficulty of managing that information, particularly for large project sizes. Social media environments contain noise and irrelevant content, which makes it challenging for project teams to filter and prioritise information that is truly relevant. Information overload may cause confusion, misunderstanding, and miscommunication within project teams and stakeholder communities. Therefore, project managers should prioritise information and implement strategies that ensure stakeholders remain focused on critical tasks and project priorities. Project managers must be able to filter, validate, and prioritise information so that communication remains purposeful and supports project outcomes rather than becoming distracting or counterproductive [11]. Social media is widely used for many activities, and this creates a challenge for project managers to ensure that its usage remains aligned with project goals and objectives. This requires clear guidelines for the project team on how social media platforms should be used within the project plan so that social media supports, rather than undermines, project progress [16].

Social media can also introduce distractions that reduce productivity. Because social media platforms are highly engaging and potentially addictive, project team members may spend excessive time on unrelated content, leading to delayed tasks, reduced quality, and missed deadlines. Data security and privacy represent another major challenge when incorporating social media into project management. Social media platforms may expose sensitive or confidential project information to non-authorised users if controls are weak or if communication channels are mismanaged. Consequently, organisations must implement vigilant strategies for information security and privacy to prevent unauthorised access, data leakage, or reputational harm associated with the misuse of project information [42]. Overall, social media has a major influence on project management sizes and general project management practices, and it has contributed to easier techniques for managing complex projects and supporting completion within stipulated timeframes. Social media has enhanced collaboration, efficiency, accessibility, and stakeholder engagement, while also enabling the creation of diverse and dynamic teams by helping project managers hire qualified personnel and establish relationships with clients and partners across global contexts.

5.4. Discussion

Organisations need to include social media throughout their

value chain operations [43]. Mechanisms for project management are no different because they are an essential component of corporate value chain initiatives. The report's results support the idea that social media is employed in projects for a variety of reasons. Nonetheless, the research notes that there has been little uptake of social media in initiatives. The main cause of social media's sparse utilisation in projects is the absence of a social media integration plan. The lack of a plan hinders activity and may make initiatives less likely to be effective. Priorities should be made clear and turned into a workable blueprint to aid in acceptance while creating a plan. Therefore, before developing any plan, companies should clarify the goals of using social media in their initiatives. The proper social media techniques must be chosen once the goals have been established to ensure the stated goals are accomplished. Instructions are thus required to explain how to use the tools in the best possible way. A well-designed plan is easier to grasp when the rules are clearly specified. A well-written approach is increasingly likely to get endorsement and produce positive outcomes. Corporate social media guidelines summed up the rules for efficient social media regulation in corporations. Social media regulations must also consider the extent of the obligation as well as the obstacles to and facilitators of utilising social media. A thorough social media strategy must take into account the ramifications of social media malfeasance from either personal or company viewpoints in the setting of the business structure. [44] To allow enterprises to reduce the security concerns connected with the use of social media, revised Information and Communication Technologies (ICT) safety guidelines are necessary in conjunction with social media regulation. Furthermore, a welcoming atmosphere makes integrating social media into initiatives easier.

6. PROJECT DELIVERY AND IMPLEMENTATION

6.1 Practical Implementation of Social Media Techniques on Team Effectiveness in Projects

The incorporation of social media (SM) within project practices has been shown to enhance team effectiveness across multiple dimensions, including communication efficiency, coordination, trust development, and knowledge exchange. Drawing upon the foundational interpretations of projects as articulated by Buchanan and Boddy, Frame, Kerzner, and the Project Management Institute, a project may be understood as a sequence of time-bound and goal-oriented activities conducted under predefined resource constraints, funded through public or private mechanisms, and designed to resolve specific challenges or deliver distinct products or services [40]. From an analytical perspective, this definition provides an appropriate framework for evaluating how social media tools influence project delivery outcomes, particularly when assessed against performance indicators such as timeliness, collaboration quality, and stakeholder engagement.

Based on the reviewed literature, several defining characteristics of projects remain central to understanding the role of social media in project delivery. First, projects are undertaken on an as-needed basis and follow a predetermined operational structure. Project activities are initiated in response to identified opportunities or challenges and are formally concluded when objectives are met, although premature termination may occur if expected outcomes are no longer achievable. Second, projects inherently introduce organisational change and therefore must align closely with institutional mission and vision statements. Third, projects act as innovative mechanisms for renewing organisational processes, services, and structures, while simultaneously facilitating communication across functional divisions. Finally, projects are primarily designed to improve the conditions of specific target groups while operating within constraints of time, cost, and available resources. These characteristics collectively provide a useful analytical lens for assessing how social media supports or constrains project delivery under real-world conditions.

Within this context, the following subsections examine the practical implementation of social media in project management, with particular emphasis on team effectiveness. The analysis is supported by comparative evaluations from prior studies and is supplemented by references to illustrative tables and figures that could further clarify these relationships.

6.2 Use of Social Media to Encourage Effective Project Communication

Effective communication remains a fundamental determinant of project success, and every project management process ultimately depends on the quality, speed, and accuracy of information exchange among participants [45]. Empirical findings across the reviewed literature indicate that inadequate communication—whether in formal or informal contexts—poses a significant threat to project outcomes, particularly when project managers lack the tools or skills necessary to engage stakeholders effectively [20] . Social media applications such as WhatsApp, WeChat, Twitter, and similar platforms have demonstrably enhanced communication flows among project team members by enabling rapid, bidirectional, and multimodal interactions.

The analytical evidence suggests that adopting social media technologies for video, audio, and text-based messaging improves coordination related to task execution, deadline monitoring, and issue resolution. In several reviewed studies, project teams using social media-based communication platforms reported shorter response times and improved situational awareness compared to teams relying solely on traditional communication channels [13]. These outcomes could be visually represented through a comparative bar chart (e.g., Figure 8: "Communication Responsiveness with and without Social Media Tools") to illustrate performance differences across project settings.

Furthermore, social media platforms have enabled project organisations to manage both internal and external communications more systematically by establishing dedicated forums for formal project interactions. Engagement with stakeholders, project team members, and external experts through these platforms allows project managers to document stakeholder objectives, track expectations, and respond proactively to emerging concerns. As a result, social media functions as a strategic asset in project management by reinforcing structured and transparent communication practices [14].

Information richness and accessibility have been identified as critical variables influencing communication effectiveness in project environments [46]. These variables are often evaluated using parameters such as feedback immediacy, linguistic clarity, and the medium's ability to transmit non-verbal cues, including tone and visual signals [30]. Social media platforms support these dimensions by integrating synchronous and asynchronous communication formats. For instance, short messaging systems enable rapid dissemination of time-

sensitive information, while email and RSS feeds support accuracy and detail for complex project documentation. Table 9 (e.g., "Comparison of Social Media Communication Channels by Information Richness") could further clarify the suitability of different tools for specific communication needs within projects.

6.2.1 Utilising Social Media to Raise Project Awareness

Prior to the widespread adoption of social media in project management, information systems often lacked the capacity to disseminate project-related knowledge efficiently and comprehensively [47]. The reviewed literature indicates that this limitation has been substantially mitigated by the proliferation of social media applications. Project scope management, quality assurance, procurement, risk assessment, and human resource management are now increasingly recognised as interconnected knowledge domains that benefit from enhanced information visibility [6], [48].

From an analytical standpoint, effective knowledge management within projects requires deliberate emphasis on the distribution, interpretation, and synthesis of relevant information. Social media platforms such as SlideShare, Flickr, and collaborative content-sharing tools support these processes by enabling teams to visualise project data, share lessons learned, and document best practices in accessible formats. These mechanisms contribute to improved project awareness and reduce information asymmetry among stakeholders. A process flow diagram (e.g., Figure 9: "Knowledge Flow Enabled by Social Media in Projects") could be used to illustrate how awareness is enhanced across project life cycles.

6.3 Utilisation of Social Media Tools within Virtual Project Teams

Virtual project teams are increasingly common and are characterised by geographically dispersed members operating across different time zones and cultural contexts [49]. The literature consistently identifies limited interaction and reduced team cohesion as major challenges faced by virtual project participants [50]. However, the emergence of interactive social media technologies—including chat applications, video conferencing, blogs, wikis, and collaborative platforms—has effectively reduced the functional distance between remote team members [12].

Analytical evaluations indicate that by 2016, these technologies had significantly improved the ability of remote workers to exchange, access, and co-create project-related content regardless of physical location [4], [51]. Social media platforms have also addressed information-sharing deficiencies by enabling continuous interaction and real-time collaboration, thereby increasing project responsiveness and adaptability. These effects could be further illustrated through a comparative table (e.g., Table 10: "Virtual Team Performance Indicators with Social Media Support").

Moreover, social media tools contribute to trust formation among virtual team members. Studies distinguish between rapid trust—developed in newly formed teams—and knowledge-based trust, which evolves through repeated interactions and shared experiences [15]. The analytical findings suggest that social media accelerates both forms of trust by fostering familiarity, reducing cultural barriers, and reinforcing shared identity within project teams.

6.4 Utilisation of Social Media Tools to Enhance Social Capital

Social capital plays a pivotal role in enabling effective collaboration within project teams and is commonly defined as the collective value derived from social interaction, mutual understanding, and shared norms [11], [52]. Analytical evidence demonstrates that social capital encompasses structural, relational, and cognitive dimensions, all of which are influenced by communication frequency and quality [17].

The adoption of social media within organisations has strengthened these dimensions by facilitating interaction, knowledge exchange, and relationship-building among employees [53]. Concepts such as cohesion, trust, shared values, and mutual respect are reinforced through sustained engagement on social media platforms [54]. These outcomes enhance collective problem-solving capabilities and contribute positively to overall project performance [55]. A conceptual framework (e.g., Figure 10: "Relationship between Social Media Use and Social Capital in Project Teams") could visually summarise these interactions.

In summary, the analytical evaluation of practical implementations indicates that social media technologies significantly enhance team effectiveness in project delivery by improving communication, enabling virtual collaboration, and strengthening social capital. These findings reinforce the strategic value of integrating social media into project management practices when supported by structured planning and governance mechanisms.

7. Conclusions and Recommendations
7.1 Conclusion

This essay thoroughly examines the methods by which social media-related technology might benefit project management. Project team participants can communicate more effectively using social media technologies like Really Simple Syndication, mail, and chat platforms. Effective communication is the heart of project management. It is a major driver that propels the whole procedure and never ceases. How to interact with our staff, clients, and suppliers develops globally. Even the techniques and instruments to support such tasks continually evolve and renew. The needs for help with the differences between project groups and interested parties. Therefore, project managers must keep current and understand the finest tools to guarantee efficient communication among all project participants.

In this regard, the social networking sites should be regarded the project manager's greatest friend since it provides various instruments for improving the effectiveness of the project, allowing projects to be finished on schedule and within budget. Social media refers to "any kind of digital communication (like social network sites and weblog) in which individuals build online forums to share data, opinions, private messages, among other materials (like videos)." It, in my opinion, also encompasses communication systems that may be used when directing a task.

If there is a manner to cooperate, participate, and interact with your project participants and interested parties from a part of the globe and discuss one's thoughts and strategies more quickly and effectively than travelling to meet with them each moment. Project managers to convey your point along; if there exists an effective method for your statement to be passively propagated all over the globe irrespective of your availability, Social Media is the answer.

The numerous advantages of incorporating social media into project management procedures in no specified sequence include effective communication. It is critical for a project manager to establish outstanding communication abilities, as they will largely decide a project's effectiveness or downfall. To help that achievement, social media application provides several services that allow managers to maintain control and quickly communicate critical details, like schedules, critical documents, judgment sessions, and daily updates. The details keep groups informed and excited about their accomplishments. It also assists in improving and accelerating interaction among teammates so they may reach each other immediately when needed. Another significant advantage is that social networking sites enable project managers to promptly handle any eventuality that might arise throughout the procedure and respond quickly to their consumers, who are an essential component of the undertaking.

Collaboration whereby Project participants are now dispersed throughout the world in various places. Even though it saves time and money, this reality complicates the procedure since developing proper stakeholder cooperation takes more work. Thankfully, certain social media technologies have made it easier to overcome these challenges by enabling team participants to communicate instantaneously through methods like video conferences, video sites, and chat rooms. There are several possibilities, such as Google Hangouts, WhatsApp, WeChat, Vimeo, Skype, YouTube, Google Meetings, and Zoom. Individuals' lives have been so entwined with the digital world that being online 24/7 to engage with anyone else has become second nature. It aids project management as it might lead to virtual team development and increase team cohesiveness, which has been shown to promote participation and team participants' dedication to the task. However, creating certain good limits and planning schedules is necessary to become more disciplined and reduce stress.

Management of expertise, where Social Media allows participants in the project to readily communicate their information, ideas, and views concerning the project. Expertise management functions are extremely significant and beneficial to the profession since they necessitate the constructive engagement of all project participants. It implies that additional information will be accessible for greater comprehension and control of the project's various phases. Consequently, if somebody must explain a question, they will have accessibility to each of the previously saved learning, which may assist in decreasing hazards and eventually improve project outcomes.

Creating networks, whereby Social networking not only enables participants on the project to engage with each other but it still enables experts to engage larger crowds and be recognised in the corporate environment by developing connections with colleagues from all across the globe. LinkedIn is among the most prominent venues; individuals from many professions exchange guidance, ideas, knowledge, understanding, and accomplishments. It is a terrific means of networking with other professionals and a particularly effective instrument to advertise your company [56].

Online existence where the major objective in this field is to establish a lengthy existence on browsers and the internet at large by creating and developing an engaging blog or page on the internet. You will use social media to develop various advertising strategies and advertise your concept or item. It can assist you in probably reaching more clients and drawing the interest of certain managers and those seeking an investment option.

Nevertheless, social media may have disadvantages, and it is crucial to be conscious of them to prevent the channel from impeding rather than facilitating business. These are three potential drawbacks to be aware of which include:

Interruptions. Social media facilitates communication, which increases interruptions for employees who can be enticed to devote excessive amounts of time conversing on the channel on topics irrelevant to business or, whether it concerns business, extends further than the degree of communication required to execute the task. Although it is improbable to cause trouble, pay attention to the system to ensure it is not a nuisance.

Information spread too widely: Because of the frequently wide scope of social networking sites, important project details occasionally get out to people who do not require them. You could feel awkward with, for instance, having all of your team members have access to project finances. Normally, you may prevent this by modifying the configurations so only particular individuals can access particular platforms. To find this sort of autonomy, seek programs.

Many data: Excessive knowledge is a real possibility. If you overwhelm your staff with the information they do not require, they could get overwhelmed, and their performance might suffer. You could discover that your staff spends most of their time reacting to news and content shared on social media but needs to be more relevant to their profession.

Communication management and Human resources sectors frequently employ a range of social media-sharing platforms for information management. These platforms include Slide Sharing, Crowd Storm, and Flickr, to name a few. Social media refers to platforms like Crowd storm, Flickr, and Slide share.

In addition, social media-based tools have helped the virtual study team reach a broader audience by regulating conversations and building confidence. For example, it has been shown that podcasts stimulate collaboration among participants of distant groups, which enhances project performance.

Additionally, it shows how group members have built social capital via social media sites, which creates the foundation for effective communication. The exchange of information, participation, and the calibre of human connections have all increased due to the spread of social media. Using social media for project management simplifies team members' ability to talk to each other, make laws, share information, and collaborate. Choosing social media platforms, customising them with overall Information and communication technology rules, and then specifying the conditions for success make a structure for integrating social media platforms into project management. The model provides each of these elements.

Project management sizes are usually described based on the value spent on the project and can be categorised into four main categories, small, medium, large and extra-large. The impact of social media on project management sizes varies on the basis of various factors, including software availability, duration of the duration, risk management strategies, local legislations and regulations affecting the project, number of employees hired, availability of skilled workers qualified to undertake the project, deadline of the project and project security requirements. Social media has greatly implicated project management sizes by offering various tools and platforms that can lead to better project collaboration, effective communication with the project team and stakeholders, and effective project management.

Small projects benefit from social media by incorporating social media platforms to reach a broader target audience, improve collaboration with remote employees, and promote effective communication among project stakeholders. Medium projects immensely benefit from social media analytics as they assist them to track project progress, identifying potential risks and opportunities, and better-informed data-driven decisions. Social media platforms enable medium-sized projects to manage available resources better and promote more effective controlling and monitoring of project budgets and timelines. Large and Extra-large Projects, on the other hand, benefit from social media by leveraging social media platforms to communicate with a large number of stakeholders to improve effective communication with a large number of stakeholders, effectively manage complex project workflows, and monitor project progress in real-time. The channels also provide data analytics platforms which are used by large and extra-large projects to speculate and monitor risks and take the necessary mitigation actions.

The study's conclusions further provided light on the aspects that either support or deter the adoption of social media platforms. The need for an institution to achieve its objectives illustrates a hindrance to creativity. Another illustration is the necessity for technological infrastructure in urban areas. Governmental restrictions on social media use, a lack of suitable technological resources, and a need for further education are all issues in various nations. These elements work together to make project management more challenging. Time constraints and a lack of clarity on the business's objectives are also mentioned as contributing factors.

7.2 Recommendations

As demonstrated through the systematic evaluation and analytical synthesis of the reviewed literature, it is evident that social media is becoming a significant instrument in reshaping how project management is conducted by opening new possibilities for participation, interaction, and cooperation while simultaneously increasing overall project performance [40]. The findings derived from the thematic analysis indicate that social media–enabled communication, collaboration, and knowledge-sharing mechanisms consistently contribute to improved coordination and decision-making across projects of varying sizes. These outcomes, which are discussed in detail in the preceding sections, may be further illustrated through comparative tables and conceptual diagrams summarising benefits, risks, and adoption drivers.

Based on the evaluative evidence presented, most project managers are strongly encouraged to utilise social networking sites and internet-based communication platforms, despite the fact that these technologies present both advantages and limitations for project management practice. The advantages identified in the literature are substantial and cannot be overlooked. These include enhanced communication efficiency, stronger team cohesion, improved stakeholder engagement, and more effective dissemination of project-related information [57], as illustrated in . Collectively, these benefits contribute to superior project management outcomes and foster a more integrated and responsive project environment. A graphical representation comparing traditional and social media–enabled project communication outcomes could further strengthen this recommendation.
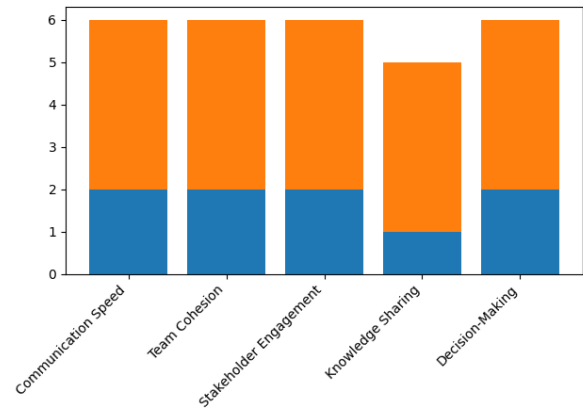

Figure 2 Comparison of Traditional vs Social Media-Enabled Project Outcomes

The analysis also indicates that the majority of the challenges associated with social media use are manageable when addressed through structured governance and informed managerial intervention. For example, access credentials can be restricted to prevent unauthorised individuals from accessing sensitive project information, thereby mitigating confidentiality and security risks. In addition, communication channels can be monitored and moderated to minimise unnecessary interruptions, while information-sharing protocols can be defined to avoid content overload among project participants [58]. These mitigation strategies, if summarised in a risk–control matrix or tabular framework, would provide practical guidance for project managers seeking to adopt social media responsibly [35].

Consequently, the integration of social media platforms into project management practices becomes considerably more feasible when appropriate tools are selected and aligned with project objectives. The reviewed studies indicate that informed tool selection significantly enhances managerial confidence and supports more effective decision-making throughout the project life cycle. Factors such as project size, complexity, stakeholder composition, and communication requirements should guide the selection process. A decision-support table mapping project characteristics to suitable social media tools would be particularly valuable in this regard.

The findings further confirm that social networking technologies are not a temporary trend but a permanent feature of the contemporary project management landscape. As such, project managers must embrace social media thoughtfully and strategically across all project phases. It is important to recognise that not all social networking platforms are equally suitable for project management purposes. For example, knowledge-sharing and professional discussion are more effectively facilitated through platforms that support structured dialogue and community engagement, such as LinkedIn groups, which allow project leaders to expand professional networks and exchange insights with other management teams [13].

Moreover, the analysis suggests that collaborative platforms designed specifically for document management and version control, such as Google Docs, are more appropriate than instant messaging applications like WhatsApp for exchanging formal project documentation. Such platforms enable orderly document organisation, real-time updates, and transparent tracking of changes, thereby improving coordination and reducing the risk of miscommunication. These distinctions

could be clearly illustrated through a comparative table outlining platform functionalities and recommended use cases.

Social media therefore represents a valuable resource for professionals overseeing projects within increasingly turbulent and dynamic project environments. The findings underscore the importance of remaining current with technological developments and maintaining an adaptive mindset toward emerging digital tools. Project managers are advised not to dismiss social media technologies prematurely, as their effective utilisation can yield significant long-term benefits in terms of efficiency, collaboration, and project success [45].

From an organisational perspective, relevant enterprises and institutions should be encouraged to take proactive measures to minimise potential risks associated with social media adoption in project management. This includes prioritising the development of robust organisational policies, clearly defined operational procedures, and comprehensive training programmes for personnel. Emphasis should be placed on responsible usage, data security, and alignment with organisational objectives. A framework summarising recommended organisational actions and expected outcomes could further enhance the practical relevance of these recommendations.

Results: As this study is theoretical in nature and based on a systematic review of existing literature, the results are reflected in the analytical conclusions presented in the preceding section. The findings have been interpreted and synthesised to provide evidence-based recommendations rather than empirical measurements.

List of abbreviations: No abbreviations are used in this manuscript.

8. REFERENCES

[1] B. H. a. S. Spalek, "Opportunities and threats presented by social media in project management," *Heliyon,* vol. 5, no. 4, p. e01488, 2019.

[2] J. Jensen, "How many project managers does it take to send a Tweet?," *TNOW,* vol. 56, no. 2, pp. 6-7, 2014.

[3] J. M. G. a. J. S. Jia, "Social Media for Project Knowledge Management," in *In Social Media for Project Management*, CRC Press, 2022, pp. 64-72.

[4] P. M. J. A. C. W. J. L. a. T. S. C. Di Gangi, "What could possibly go wrong? A multi-panel Delphi study of organizational social media risk," *Information Systems Frontiers,* vol. 20, no. 5, pp. 1097-1116, 2016.

[5] D. C. M. O. M. a. P. C. Rosa, "Target: a collaborative model based on social media to support the management of lessons learned in project," *International Journal of Managing Projects in Business,* vol. 9, no. 3, pp. 654-681, 2016.

[6] A. C. R. a. K. M. Daemi, " Social media in project management: A systematic narrative literature review.," *International Journal of Information Systems and Project Management,* vol. 8, no. 4, pp. 5-21, 2021.

[7] M. C. M. G. S. a. R. R. Ikemoto, "SM4PM: a prescriptive framework for guiding integrated use of social media in project management," *International Journal of Management and Enterprise Development,* vol. 19, no. 4, pp. 330-364, 2020.

[8] M. a. H. M. Kaplan, "Users of the world, unite! The challenges and opportunities of social media," *Business Horizons,* vol. 53, no. 1, pp. 59-68, 2010.

[9] M. F. R. a. S. C. Kanagarajoo, "The contribution of social media to project management," *International Journal of Productivity and Performance Management,* vol. 69, no. 4, pp. 834-872, 2020.

[10] C. R.-S. G. S.-M. T. a. F. R. 2. S. i. i. s. m. C. R.-S. G. S.-M. T. a. F. R. Pulido, "Social impact in social media: A new method to evaluate the social impact of research," *PloS one,* vol. 13, no. 8, p. p.e0203117.

[11] E. Harrin, "Barriers to social media adoption on projects," in *Strategic Integration of Social Media into Project Management Practice*, G. Silvius, Ed., IGI Global, pp. 106-124.

[12] H. a. S. H. Delerue, " Effective communication within project teams: the role of social media," *International Journal of Conceptions on Management and Social Sciences,,* vol. 5, no. 1, 2017.

[13] A. a. F. B. C. J. M. Collins, "Balancing the strengths of systematic and narrative reviews," *Human Reproduction Update,* vol. 11, no. 2, pp. 103-104, 2005.

[14] P. R. F. a. C. M. Cronin, "Undertaking a literature review: a step-by-step approach," *British Journal of Nursing,* vol. 17, no. 1, pp. 38-43, 2008.

[15] M. J. M. D. P. a. M. M. Ershadi, "A framework for conceptualising the organisational communications of a project management office," *International Journal of Project Organisation and Management,* vol. 13, no. 1, pp. 60-84, 2021.

[16] A. Manzoor, "Social Media for Project Management," in *In Project Management: Concepts, Methodologies, Tools, and Applications* , IGI Global, 2016, pp. 778-792.

[17] B. S. J. a. M. T. Hudson, "An exploration of the physical activity experiences of Northern Aboriginal youth: a community-based participatory research project," *Qualitative Research in Sport, Exercise and Health,* vol. 12, no. 1, pp. 108-124, 2020.

[18] A. a. I. K. Qusef, "Social media in project communications management," in *7th International Conference on Computer Science and Information Technology (CSIT)*, 2016.

[19] M. a. M. A. Pivec, "Employment background influence on social media usage in the field of European project management and communication," *Journal of Business Research,* vol. 94, pp. 280-289, 2019.

[20] F. M. D. B. A. D. L. A. P. G. a. O. G. Brunetti, " Digital transformation challenges: strategies emerging from a multi-stakeholder approach," *The TQM Journal,* vol. 32, no. 4, pp. 697-724, 2020.

[21] V. Rimkunienė. D. and Zinkeviciute, "Social media in the communication of temporary organizations: role, needs, strategic perspective," *Journal of Business Economics and Management,* vol. 15, no. 5, pp. 899-914, 2014.

[22] K. a. V. G. Samset, "Front-end definition of projects: ten paradoxes and some reflections regarding project management and project governance," *International Journal of Project Management,* vol. 34, no. 2, pp. 297-313, 2016.

[23] I. Lee, "Social media analytics for enterprises: Typology, methods, and processes," *Business Horizons,* vol. 61, no. 2, pp. 199-210, 2018.

[24] R. D. J. R. &. L. H. Paul, "Global Virtual Team Performance: The Effect of Coordination Effectiveness, Trust and Team Cohesion," *IEEE Transactions on Professional Communication,* p. 59, 2016.

[25] H. a. K. I. Klijn, "Governance and media attention: a research agenda about how media affect (network) governance processes," *Perspectives on Public Management and Governance,* vol. 1, no. 2, pp. 103-113, 2018.

[26] T. P. G. a. S. L. Nisar, "Social media information benefits, knowledge management and smart organisations," *Journal of Business Research,* vol. 94, pp. 264-272, 2019.

[27] S. L. D. C. S. P. a. P. M. L. W. Treem, "Bringing technological frames to work: how previous experience with social media shapes the technology's meaning in an organization," *Journal of Communication,* vol. 65, no. 2, pp. 396-422, 2015.

[28] M. H. M. a. S. C. Leonardi, "Enterprise Social media: definition, history, and prospects for the study of social technologies in organizations," *Journal of Computer-Mediated Communication,* vol. 19, pp. 1-19, 2013.

[29] H. L. P. a. Q. M. Jiang, "Journal of Construction Engineering and Management," *Public-opinion sentiment analysis for large hydro projects,* vol. 142, no. 2, 2016.

[30] B. Cypress, "Qualitative research methods: A phenomenological focus," *Dimensions of Critical Care Nursing,* vol. 37, no. 6, pp. 302-309, 2018.

[31] R. Wang and Medaglia, "Governments' social media use for external collaboration," *Transforming Government: People, Process and Policy,* vol. 11, no. 4, pp. 572-595, 2017.

[32] W. a. G. Murphy, "Unpacking 'lessons learned': investigating failures and considering alternative solutions," *Knowledge Management Research & Practice,* vol. 13, no. 1, pp. 17-30, 2015.

[33] C. L. a. R. J. Rosenberger, "Integrating data from user activities of social networks into public administrations," *Information Systems Frontier,* vol. 19, no. 2, pp. 253-266, 2016.

[34] L. F. N. a. P. B. Williams, "Online stakeholder interactions in the early stage of a megaproject," *Project Management Journal ,* vol. 46, no. 6, pp. 92-110, 2015.

[35] M. a. M. H. Whitman, Principles of information security, Cengage learning, 2021.

[36] N. a. O. K. Babatunde, "Megaproject complexity attributes and competencies: lessons from IT and construction projects," *International Journal of Information Systems and Project Management,* vol. 7, no. 4, pp. 77-99, 2019.

[37] M. Q. H. J. Q. W. N. A. a. B. X. Zhang, "Social sensing system for water conservation project: a case study of the South-to-North Water Transfer Project in China," *Water Policy,* vol. 20, no. 4, pp. 667-691, 2018.

[38] S. C. a. M. A. Ninan, "Branding and governmentality for infrastructure megaprojects: the role of social media," *International Journal of Project Management,* vol. 37, no. 1, pp. 59-72, 2019.

[39] J. Zhang, "Voluntary information disclosure on social media," *Decision Support Systems,* vol. 73, pp. 28-36, 2015.

[40] S. A. B. A. a. A. N. Ahmad, "Social media adoption and its impact on firm performance: the case of the UAE., 25(1), pp.84-111," *International Journal of Entrepreneurial Behavior & Research,* vol. 25, no. 1, pp. 84-11, 2019.

[41] M. Sponselee, "Effects of social media on project management," in *Project Management: Concepts, Methodologies, Tools, and Applications*, IGI Global, 2016, pp. 1400-1418.

[42] G. J. S. a. W. D. Ma, "Understanding the effects of social media use on construction project performance: a project manager's perspective," *Engineering, Construction and Architectural Management,* vol. 29, no. 1, pp. 551-570, 2022.

[43] G. F. a. M. A. Micán, "Project portfolio risk management: a structured literature review with future directions for research," *International Journal of Information Systems and Project Management,* vol. 8, no. 3, pp. 67-84, 2020.

[44] D. B. D. O. E. K. D. a. K. D. Papadaki, "Big data from social media and scientific literature databases reveals relationships among risk management, project management, and project success.," 2019.

[45] J. J. S. H. P. K. a. D. F. Baxter, "Implementing a social intranet in a professional services environment through Web 2.0 technologies," *The Learning Organization,* vol. 21, no. 1, pp. 26-47, 2014.

[46] S. C. K. R. A. H. G. A. A. &. S. A. Crowe, "The case study approach," *BMC medical research methodology,* vol. 11, no. 1, pp. 1-9, 2018.

[47] J. a. P. S. 2. Portny, Project management for dummies, . John Wiley & Sons, 2022.

[48] P. a. I. C. Sarka, "Knowledge sharing via social media in software development: a systematic literature review," vol. 15, no. 4, pp. 594-609, 2017.

[49] D. a. N. N. S. Mukherjee, "Comparative analysis of social media tool used in software projects deploying virtual teams," *Vision,* vol. 21, no. 4, pp. 397-409, 2017.

[50] R. K. Purvanova, " Face-to-face versus virtual teams: What have we learned?," *The Psychologist-Manager Journal,* vol. 17, no. 2, 2014.

[51] R. A. S. T. P. a. A. S. Rahman, "Changes in Virtual Team Collaboration With Modern Collaboration Tools," *iManager's Journal on Information Technology,* p. 5, 2016.

[52] Y. &. S. R.-A. Sun, "The interplay between users' intraorganizational social media use and social capital'," *Computers in Human Behavior,* vol. 37, pp. 334-341, 2014.

[53] N. A. M. a. H. M. Oostervink, "Knowledge sharing on enterprise social media: practices to cope with institutional complexity," *Journal of Computer-Mediated Communication,* vol. 21, no. 2, pp. 156-176, 2016.

[54] H. a. J. N. Remidez, "Developing a model for social media in project management communications," *International Journal of Business and Social Science,* vol. 3, no. 3, pp. 96-103, 2018.

[55] A. L. D. B. D. E. I. a. W. P. Terhorst, "Tacit knowledge sharing in open innovation projects.," *Project Management Journal ,* vol. 49, no. 4, pp. 5-19, 2018.

[56] J. a. T. R. Ram, "Using Social Media in Project Management: Behavioral, Cognitive, and Environmental Challenges," *Project Management Journal,* p. 87569728221079427, 2022.

[57] R. Ali, " Impact of Social Media on Project Success with Mediating Role of Project Communication and Moderating Role of Technology Orientation (Doctoral dissertation, CAPITAL UNIVERSITY).," 2022.

[58] C. G. R. I. G. a. N. M. Anthopoulos, "Why do e-government projects fail? An analysis of the Healthcare.gov website Government Information Quarterly," *Journal: Government Information Quarterly,* vol. 33, no. 1, pp. 161-173, 2016.

[59] M. B. B. a. H. Á. Aranyossy, "How universal are IT project success and failure factors? Evidence from Hungary," *Information Systems Management,* vol. 35, no. 1, pp. 15-28, 2018.

[60] D. a. T. D. Denyer, "Producing a systematic review in The Sage handbook of organizational research methods. Thousand Oaks," *CA: Sage Publications Ltd,* pp. 671-689, 2009.