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**Title in English: The Impact of Effective Communication on Project Success: An Applied Study on
Infrastructure Projects in the Western Region of the Kingdom of Saudi Arabia**

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Abstract :

This study examines the impact of effective communication on project success, with a specific focus on infrastructure projects in the western region of the Kingdom of Saudi Arabia. The research aims to explore how various communication factors contribute to successful project execution.

Quantitative data from structured questionnaire used to collect data from various respondents and qualitative approach are used as well.

This research contributes to the academic understanding of communication as a critical success factor in project management and offers practical recommendations for enhancing communication practices in the Saudi infrastructure projects environment.

Keywords: Effective communication, project success, stakeholder engagement, infrastructure projects, communication management, Saudi Arabia, project performance, communication barriers.

Chapter One

Introduction

Introduction

Project success is dependent on effective communication. the successful execution of projects has become a critical determinant of organizational performance. Projects, whether large or small, are inherently complex and require coordinated efforts from diverse stakeholders, often with varying backgrounds, expertise, and expectations. communication stands out as a vital element that influences every phase of a project from initiation and planning to execution, monitoring, and closure.

Effective communication in project management ensures that goals are clearly understood, responsibilities are well-defined, and progress is effectively monitored. Studies by the Project Management Institute (PMI) have consistently shown that poor communication is among the leading causes of projects failure. Additionally, the Pulse of the Profession report (PMI, 2013) revealed that organizations with effective communication practices are significantly more likely to deliver successful projects compared to those with weak communication strategies.

The project communications management plan and communication artifacts demonstrate that the planned communications are being delivered to stakeholders. There are a few ad hoc requests for information or misunderstandings that might indicate engagement and communication efforts are well managed.

Multiple communication related variables have been identified as directly impacting project outcomes. These include:

Clarity of Communication the use of precise, understandable language to avoid misinterpretations.

Communication Frequency regular interaction ensures real-time updates and alignment.

Communication Channels the choice of tools (e.g., meetings, reports, emails, platforms) affects the speed and accuracy of information flow.

Formal and Informal Communication balancing structured communication (e.g., status reports) with informal dialogue fosters a more dynamic and transparent work environment.

Stakeholder Engagement effective communication encourages inclusive participation, trust-building, and timely feedback.

Communication Effectiveness overall, how well the communication practices contribute to decision-making, collaboration, and issue resolution.

Research by Pinto and Slevin (1987) emphasized communication as one of the top ten critical success factors in project management. Similarly, Zwikaël and Smyrk (2011) found that effective stakeholder communication reduces scope changes and improves client satisfaction. Henderson (2008) highlighted the role of digital communication tools in bridging gaps among remote or international teams.

Being a successful project manager does not rely on a single management approach or rigid framework or set of rules. Instead, adaptive communication strategies and contextual awareness are essential. This study aims to fill a critical gap between the project management literature and real-world practice, offering insights to managers, organizations, and policymakers on how to enhance communication effectiveness and highlighting the role of effective communications in project and how directly and indirectly influence the project's success. The study will examine not only the channels and tools used for communication but also the quality, frequency, effectiveness and interpersonal skills among project managers and stakeholders.

Research Problem

The problem addressed in this research is articulated around the lack of communication in project management, and how does effective communication influence the success of projects.

Communication is at the heart of project management, serving as the lifeline that connects various stakeholders, aligns objectives, facilitates collaboration, and supports timely decision-making. However, in practice, communication breakdowns are common whether in the form of unclear instructions, misinterpreted messages, lack of timely feedback, or information silos within project teams. These breakdowns can lead to confusion, duplicated efforts, delays, increased costs, and even conflict among team members and stakeholders.

Although literature acknowledges the importance of communication in project success and the advance technologies, modern communication tools and platforms speed up the communications, still there is a lack of comprehensive understanding regarding which specific communication practices or model most effectively support project objectives and many organizations struggle to maintain consistent and clear communication throughout the project life cycle. These issues are exacerbated by remote work environments, virtual teams and cross-cultural teams.

Importance of the research

In an era of global and multicultural projects, understanding the importance of effective communication is essential and it is a key factor in project success.

By addressing one the most frequently cite causes of project failure, which is ineffective communication, this study will identify the gaps and challenges in communication approaches within infrastructure project environments and offer actionable recommendations that project managers and organizations can implement to strengthen stakeholders engagement, align expectations and enhance coordination throughout the project lifetime from defining a project scope statement to establishing a work breakdown structure, building a network, adding resources, completing a plan and hitting milestones.

This research contributes to the academic literature on project management by highlighting the role of effective communication as a critical success factor, particularly in the context of infrastructure projects a field that remains underexplored in local applied studies, provides practical insights that can help project managers and organizations improve communication strategies within teams and with stakeholders, leading to reduced risks, enhanced efficiency, and higher project success rates.

The findings of this research will support the development of effective communication policies and procedural guidelines in infrastructure projects environment, Assist decision-makers in enhancing planning, execution, and monitoring mechanisms, raise awareness among project teams about the importance of communication in overcoming challenges and achieving project objectives.

Research Objectives:

Any successful project needs effective communication techniques and skills, these abilities enhance the technical facets of project management. The following elements of the study demonstrate how effective communication contribute to project success:

First, examining how effective communication related to project success.

Second, identify key communication factors that are crucial for enhancing project team performance.

Third, assess challenges and barriers to effective communication in project environment.

Fourth, the study aim to recommend strategies and offer helpful suggestions for enhancing communication practices to improve project performance.

By accomplishing these goals, the study intends to provide insightful information to businesses and project managers regarding the significance of funding the communication technologies as a strategy for long-term project success.

Research Questions

- 1- What is the relationship between communication effectiveness and project success?
- 2- Who needs information ?
- 3- What information does each stakeholder need ?
- 4- What is the best way to provide information ?
- 5- Which elements of communication (clarity, frequency, channels, feedback) have the greatest impact on project success ?
- 6- When and how often is information needed ?
- 7- Who has the information needed ?

By answering these questions, this research will provide overall understanding of the impact of effective communication on project success.

Hypotheses of the research

First Hypothesis

There is a positive relationship between the overall effectiveness of project communication and project success.

Second Hypothesis

Communication clarity and frequency (how often information is shared, the degree to which information is clear and unambiguous) positively influences project success.

Third Hypothesis

Communication channel appropriateness (choosing the right communication model and channel for the message) has a positive effect on project success.

Fourth Hypothesis

feedback mechanisms in project communication positively impact project success.

Fifth Hypothesis

Barriers to effective communication (such as language differences, cultural differences, or unclear roles) negatively affect project success.

8- Scientific Theory Model Applied in the Research:

A scientific theory is a comprehensive and well-substantiated explanation of some aspect of the natural world. It is grounded in a robust body of evidence that has been repeatedly tested and confirmed through observation, experiment. Scientific theories help explain patterns in data, predict future observations, and provide a framework for understanding complex phenomena.

1- Transformational Leadership Theory: Since the 1980s, transformational leadership theory has been the most widely accepted leadership idea. It has consistently demonstrated a significant impact on a variety of organizational standards and outcomes, including commitment, job satisfaction, performance, and job performance. The majority of leadership research over the past three decades has concentrated more on transformational leadership, which provides robust support for project teams, organizational environment, culture, employee wellbeing, and organizational performance. The project's future is fully explained by transformational leaders, who also encourage stakeholder meetings that ultimately result in project success.

2- Emotional Intelligence (EQ) Theory: The ability to recognize, evaluate, and control one's own and other people's emotions is known as emotional intelligence (EQ). Even though the idea of emotional intelligence (EQ) first surfaced in the 1920s, it wasn't until Daniel Goleman's book *Emotional Intelligence* that the public and corporate community began to take notice of it.

3- Conflict Management Theory: On a project, conflict is unavoidable, and when disputes are managed well, performance can improve. However, dysfunctional conflict—a kind of conflict that deteriorates employee relations and impedes organizational advancement—can flare up and seriously jeopardize the success of a project. Conflicts might arise in outsourced projects since individuals are not used to collaborating and have different viewpoints and values. Successful businesses put a lot of time and effort into creating the "rules of engagement" in advance to ensure that conflicts are resolved amicably.

4- Contemporary Project Management Model: Contemporary project management utilizes the tried-and-true project management techniques along with modern improvements such as the most current versions of Microsoft® Project Professional 2013 and the fifth edition of the Guide to the Project Management Body of Knowledge (PMBOK® Guide).

Contemporary project management also utilizes a wide range of tools and insights from a variety of sources, including extended role definitions, leadership principles, human strengths, agile planning and execution, and contemporary approaches to quality and communications. Modern project management is scalable, employing more complicated versions of key approaches for larger projects and simpler equivalents for smaller ones.

These theories collectively give a detailed understanding of how interpersonal skills contribute to project success and provide a basis for developing strategies to improve these skills in project management.

8.1 Definitions:

As the project management skills greatly affect the projects performance and success, we will highlight the main definitions of the qualities that make an effective project manager:

8.1.1 Managing versus Leading a Project

In an ideal scenario, the project would be finished if the project manager just carried out the project plan. The project manager would collaborate with others to create a timeline, assemble a team, monitor progress, and make announcements about the next steps, after which everyone would rush forward. Naturally, nobody lives in a perfect world, and things rarely go as planned. Participants in the project become irritable; they don't get along with one another; other departments can't deliver on their promises; there are technological issues; and the project takes longer than anticipated. Restoring the project's momentum is the project manager's responsibility. A manager speeds up specific tasks; finds solutions to technical issues, mediates conflicts when they arise, and strikes the right balance between project scope, budget, and schedule.

Project managers, however, frequently do more than simply keep the project on schedule and put out fires. Additionally, they innovate and adjust to constantly shifting conditions. In order to respond to unforeseen dangers or opportunities, they occasionally have to depart from the original plan and implement considerable changes in the project scope and timetable.

For instance, halfway through the project, the needs of the clients can change and necessitate major design adjustments. New items from rival companies could force collapsing project deadlines. Project participants' working relationships may deteriorate, necessitating a reorganization of the project team.

In the end, what was achieved by the project's conclusion may differ greatly from what was first anticipated or intended. In order to finish the project on schedule, project managers must integrate the resources they have been allotted. Simultaneously, they must start making adjustments to timetables and plans since ongoing issues render them impractical. To put it another way, managers want to continue the project while making the required modifications as it progresses.

Kotter (1990) asserts that these two unique tasks serve as a representation of the differences between management and leadership.

Leadership is about adapting to change, whereas management is about managing complexity. By creating plans and goals, creating structures and processes, keeping an eye on performance against plans, and taking corrective action when needed, good management creates stability and order. Leadership entails identifying and communicating the need to drastically modify the project's operation and direction, bringing everyone on board with the new course, and inspiring them to collaborate in order to overcome obstacles brought on by the shift and achieve new goals. Although it is generally preferred, strong leadership is not always required to finish a project successfully.

As might be the case while building a typical apartment complex, when the project manager merely administers the project plan, well-defined projects that don't face any major surprises require little leadership. On the other hand, more leadership is needed the more uncertainty a project faces, whether it be from shifting project scope, technical dead ends, or poor interpersonal coordination. For instance, a software development project with constantly shifting specifications to accommodate industry advancements would require excellent leadership. It requires a unique individual to be good at both roles. Some people are excellent visionaries who can motivate others to embrace change.

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8.1.2 Engaging Project Stakeholders

In order to successfully finish their project, new project managers are keen to put their own ideas into practice and oversee their team. They quickly discover that the collaboration of numerous people, many of whom do not directly report to them, is essential to the success of the project. For instance, a project manager was taken aback by the amount of time she spent negotiating and collaborating with vendors, consultants, technical experts, and other functional managers during a system integration project.

All too frequently, inexperienced project managers take a hands-on approach to project management when they do find time to work directly on the project. They use this approach

because they are motivated to produce results rather than because they are egotistical power-hungry individuals. How slowly things move along, how many people need to be brought on board, and how hard it is to get collaboration swiftly irritate them. Regretfully, the temptation to increase pressure and become more involved in the project naturally arises as this irritation increases. These project managers rapidly acquire the reputation of "micro managing" and start to lose focus on their actual responsibility for project direction.

This vicious circle is something that some new managers never escape. Others quickly come to the realization that power does not equate to influence and that managing a far more complicated group of stakeholders is a necessary part of being a successful project manager. They come upon a network of connections that call for a far wider range of influence than they believed was required or even feasible.

A major project, for instance, will probably entail collaborating with several groups of stakeholders in one way or another, whether it is repairing a bridge, developing a new product, or setting up a new information system. The core team of experts tasked with finishing the project comes first. Professionals who work on particular project segments are likely to join this group at various points in time. Second, there are groups of people who are either directly or indirectly connected with the project within the performing company. Top management, to whom the project manager reports, is the most significant.

Additionally, there are other managers who supply resources and/or may be in charge of particular project components, as well as administrative support services like finance, human resources, and so forth. The customer for whom the project is intended is the most significant external group that affects the project's success, albeit this depends on the environment of project (see figure 2).

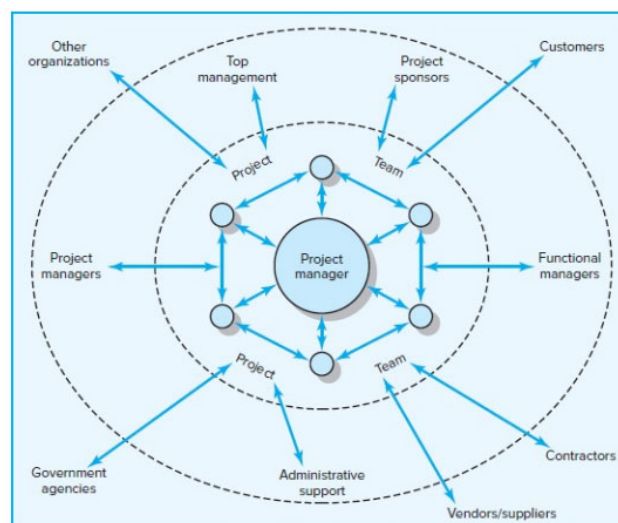


Figure. 2 (Network of Stakeholders)

Every one of these stakeholder groups contributes unique standards, goals, priorities, and areas of expertise to the project. According to the Project Management Institute (2017), stakeholders are individuals and groups that actively participate in the project or whose interests may be impacted by it in either a favorable or negative way.

Project management is distinct from ordinary management due to the extensive and intricate nature of stakeholder connections. A project manager needs to create strategies for managing dependencies and comprehend how stakeholders can impact the project in order to be successful. Here is a description of these dependencies' nature:

The project team oversees and finishes the task. Although the majority of participants desire to perform well, they are also focused on their other responsibilities and how their participation in the project would advance their own objectives. It is only normal for project managers to vie for resources and upper management support. They frequently have to communicate information and pool resources at the same time.

Important support services are offered by administrative support groups, including buying agents, maintenance, information systems, and human resources. At the same time, they place restrictions and demands on the project, like the need to accurately and promptly supply information and to document expenses.

Depending on the structure of the project, *functional managers* may have a little or significant impact on its success. They might be in charge of allocating project staff, addressing technical issues, and supervising the execution of important project work segments in matrix setups.

Functional managers' technical advice can be helpful even in specialized project teams, and internal initiatives may depend on their acceptance of finished work. There is a limit to how much functional managers desire to work together. Along with limiting any delays the project may cause to their own business; they are also focused on maintaining their standing within the company.

The organization's top management sets priorities and authorizes the project's funding. They decide how to reward achievements and define success. Usually, their agreement is required for significant changes to the budget, scope, and timeline. They naturally have a stake in the project's success, but they also need to consider what's best for the organization as a whole.

Project sponsors: advocate for the project and use their power to get it approved. Since their reputation is dependent on the project's success, they must be updated on all significant advancements. They are an important project ally and stand up for the project when it is attacked.

In certain situations, contractors may handle all of the actual work, with the project team only coordinating their input. In other situations, they are in charge of supporting areas of the project's scope. The main project team's work may be impacted by subpar work and timetable errors. Although delivering quality work is what builds contractors' reputations, they also have to balance their contributions with their own profit margins and their obligations to other clients.

Governmental organizations impose restrictions on project work. Permits must be obtained. Code-compliant construction is required. The U.S. Food and Drug Administration requires new medications to pass a stringent battery of tests. Other items must adhere to safety regulations, such as those set forth by the Occupational Safety and Health Administration.

Suppliers and vendors supply the resources required to finish the project. Poor quality, shortages, and delays can cause a project to stall.

Depending on the project's nature, other organizations may have a direct or indirect impact. Environmental organizations, for instance, might contest or even halt project work. Governmental organizations may come under pressure from public interest groups. In order to safeguard their interests during a project, clients frequently employ consultants and auditors.

A project manager's capacity to collaborate and communicate with one group will influence his capacity to involve other groups, demonstrating the interdependence of these partnerships. For instance, if functional managers believe that upper management is becoming less committed to the project, they are likely to be less cooperative. On the other hand, the project manager's reputation among the team is likely to improve if he can protect them from a client's overbearing meddling.

The quantity and level of external dependencies that must be involved will depend on the project management structure being employed. Because the majority of the resources are allocated to the project, one benefit of forming a specialized project team is that it decreases dependencies, particularly inside the organization. On the other hand, a functional matrix organization creates

more dependencies, making the project manager more dependent on functional peers for staff and work.

Snapshot from Practic.01 (Gray C. Project Management. The Managerial Process 8ed 2021)

The Project Manager as Conductor



Metaphors convey meaning beyond words. For example, a meeting can be described as being difficult or "like wading through molasses." A popular metaphor for the role of a project manager is that of *conductor*.

The conductor of an orchestra integrates the divergent sounds of different instruments to perform a given composition and make beautiful music. Similarly, the project manager integrates the talents and contributions of different specialists to complete the project. Many consider coordinating and integrating the work of others as the primary role of project managers (Project Management Institute, 2017).

Both a conductor and a project manager have to be good at understanding how the different players contribute to the performance of the whole. Both are almost entirely dependent upon the expertise and know-how of the players. The conductor does not have command of all the musical instruments. Likewise, the project manager usually possesses only a small proportion of the technical knowledge to make decisions. As such, the conductor and project manager both facilitate the performance of others rather than actually perform.

Conductors use their arms, baton, and other nonverbal gestures to influence the pace, intensity, and involvement of different musicians. Likewise, project managers orchestrate the completion of the project by managing the involvement and attention of project members. Project managers balance time and process and induce participants to make the right decisions at the right time, just as the conductor induces the wind instruments to perform at the right moment in a movement. Each controls the rhythm and intensity of work by managing the tempo and involvement of the players.



JGI/Jamie Grill/Blend Images LLC

Finally, each has a vision that transcends the music score or project plan. To be successful, they must both earn the confidence, respect, and trust of their players.

8.1.3 Influence as Exchange

A manager must skillfully create a cooperative network among disparate allies in order to oversee a project successfully. The law of reciprocity typically governs networks, which are advantageous partnerships (Grant, 2013; Kaplan, 1984).

"One good deed deserves another, and likewise one bad deed deserves another" is the fundamental tenet. Giving others resources and services in return for future resources and services is the main strategy for gaining cooperation.

The exchange view of influence was referred to as "currencies" by Cohen and Bradford (1990). You must be ready to utilize the right currency if you wish to conduct business in a certain nation, and exchange rates are subject to change as circumstances evolve. Similarly, the values of a marketing manager and a seasoned project engineer may differ, and you will probably need to utilize different influence currencies to win each person's cooperation. The main idea is that cooperative partnerships require a balance between "debit" and "credit" accounts over time, even though this analogy is a little oversimplified. (Refer to table 3.)

Table. – 3 Commonly Traded Organizational Currencies

Task-related currencies	
Resources	Lending or giving money, budget increases, personnel, etc.
Assistance	Helping with existing projects or undertaking unwanted tasks.
Cooperation	Giving task support, providing quicker response time, or aiding implementation.
Information	Providing organizational as well as technical knowledge.
Position-related currencies	
Advancement	Giving a task or assignment that can result in promotion.
Recognition	Acknowledging effort, accomplishments, or abilities.
Visibility	Providing a chance to be known by higher-ups or significant others in the organization.
Network/contacts	Providing opportunities for linking with others.
Inspiration-related currencies	
Vision	Being involved in a task that has larger significance for the unit, organization, customer, or society.
Excellence	Having a chance to do important things really well.
Ethical correctness	Doing what is "right" by a higher standard than efficiency.
Relationship-related currencies	
Acceptance	Providing closeness and friendship.
Personal support	Giving personal and emotional backing.
Understanding	Listening to others' concerns and issues.
Personal-related currencies	
Challenge/learning	Sharing tasks that increase skills and abilities.
Ownership/involvement	Letting others have ownership and influence.
Gratitude	Expressing appreciation.

The following sections provide a more thorough discussion of the same Commonly Traded Organizational Currencies:

Task-Related Currencies

The ability of the project manager to help others complete their tasks is the basis for task-related currencies, which can take many various forms. The ability to respond to demands from subordinates for more time, money, or labor to finish a project segment is likely the most important form of this currency. Sharing resources with another project manager who is in need is another example of this type of currency. On a more intimate level, it can only entail giving a coworker hands-on help with a technical issue.

Another use of this currency is to lend support to a colleague's suggestion or idea. Having a "friend in court" can be very helpful to the individual attempting to get clearance for a plan or proposal, as most significant activity is likely to encounter some sort of opposition.

This money can also be expressed as remarkable effort. For instance, responding to an urgent request to finish a design document in two days as opposed to the customary four days is likely to inspire appreciation. Lastly, another way this currency is used is by exchanging important information that other managers could find helpful.

Position-Related Currencies

The manager's capacity to elevate others' standing inside their company is the source of position-related currencies. A project manager can accomplish this by assigning a difficult task that will help the individual grow by enhancing her abilities and skills. Strong feelings of thankfulness are naturally produced when you are given the opportunity to prove yourself. Goodwill is created by sharing the praise and drawing attention to the successes and efforts of others from superiors.

Project managers reveal that figuring out how to make these individuals appear good to their superiors is a helpful tactic for winning over professionals in other departments or organizations. A project manager, for instance, collaborated with a subcontractor whose company had a strong commitment to total quality management (TQM). During high-level briefings, the project manager made it a point to highlight how the contractor's quality improvement initiatives helped with cost containment and issue avoidance.

Improving the standing of other employees inside the company is an additional form of acknowledgment. While "bad press" can rapidly cut someone off and make performance tough, "good press" can open up a lot of chances. This currency is also demonstrated by defending someone who has been wrongfully held responsible for project failures, therefore protecting their reputation.

Inspiration-Related Currencies

The most potent kind of impact is probably that which is associated with inspiration. The majority of inspiration comes from people's intense desire to change the world and give their life purpose. A project can inspire incredible dedication if an interesting, audacious concept is developed. For instance, the belief that project participants had an opportunity to alter the way people viewed computers was responsible for many of the technological innovations connected to the launch of the first Macintosh computer. An opportunity to achieve something truly well is presented by a different kind of vision. Many people are motivated by the ability to take pride in their work.

Frequently, inspiration comes from the project's very nature. People can feel good about what they are doing and that they are making a difference when they find a cure for a terrible disease, launch a new social program that will help those in need, or just build a bridge that will ease a significant traffic bottleneck. Rather than pressuring individuals to take action, inspiration works like a magnet, drawing them in.

Relationship-Related Currencies

More than completing project tasks, relationship-related currencies focus on improving the relationship with the other person. Building a relationship that goes beyond typical professional limits and into the realm of friendship is the essence of this type of influence. Personal and emotional support is necessary for the development of such relationships. Encouragement, confidence-boosting, and picking others up when they're feeling low all naturally foster goodwill. Another way to use this currency is to make tough circumstances enjoyable and to share a sense of humor. Relationships are also organically strengthened by participating in non-work-related activities like sports and family vacations.

Listening to others is arguably the simplest way to use this currency. According to psychologists, relationships end when people stop listening to one another, and most people have a strong need to be understood. A unique link is also formed between people when they are wise confidants and share personal secrets and goals.

Personal-Related Currencies

Individual needs and a strong sense of self-worth are addressed by personal currencies. Some think that helping people feel important and valuable will inevitably lead to goodwill, and that self-esteem is a fundamental psychological need. By asking for assistance and comments, giving people authority over their work, and letting them feel free to push themselves, a project manager can help

a colleague feel more valuable. Sincere thanks for other people's contributions are another example of this type of cash. However, since appreciation is readily diminished when overused, care must be taken while expressing it. In other words, the first thank you is probably more important than the fifty.

In the end, a project manager will only have influence if she can provide something that other people find valuable. Additionally, a project manager needs to be able to acquire and use a variety of influence currencies since she depends on a wide range of people. This will be limited, in part, by the structure and character of the project. A project manager overseeing a committed team, for instance, has a lot more to offer team members than a manager tasked with coordinating the efforts of many specialists from various departments and organizations.

8.1.4 Social Network Building

Mapping Stakeholder Dependencies: Determining which stakeholders are essential to the project's success is the first stage in creating a social network and communication channels. The following inquiries must be made by the project manager and his principal assistants:

Whose assistance will we require?

Whose consent or endorsement will we require?

Whose resistance would prevent us from completing the project successfully?

Making a map of these dependencies is useful for many project managers. For instance, a project manager in charge of implementing a new financial software system in her organization recognized the relationships shown in Figure 3.

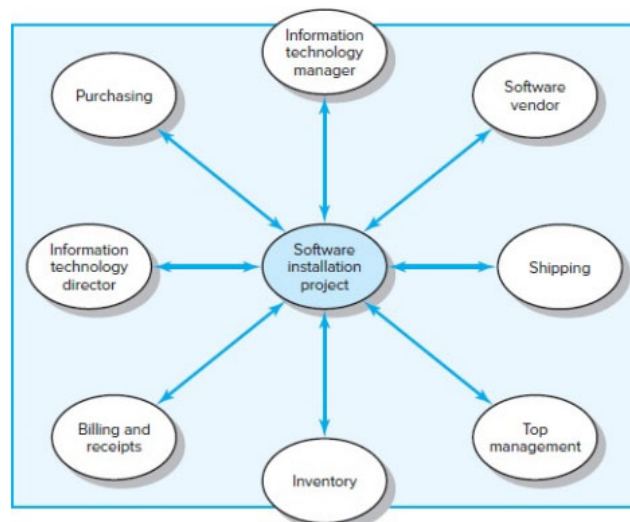


Figure. 3 (Stakeholder Map for Financial Software Installation Project)

Dependencies should always be overestimated rather than underestimated. Project managers who were otherwise gifted and successful have far too frequently been sidetracked by someone whose position or influence they did not expect. Once the stakeholders involved in your project have been identified, it is critical to evaluate their importance. The most important stakeholders are those who have the most influence on and interest in the project; they should receive the most attention. You must specifically "step into their shoes" and consider the project from their point of view by posing the following queries:

What aspects—goals, values, demands, working styles, and risks—differ between myself and the people I rely on?

How do these various individuals—supporters, apathetic, and adversaries—feel about the project?

How do my relationships with the folks I rely on stand right now?

In comparison to the people I rely on, what are my sources of influence?

Starting this examination will help you understand what other people value and what currency you might be able to offer as a foundation for a collaborative connection. You start to identify relationships where you have a present debit or no convertible cash as possible trouble spots. You may also predict how other people will feel and react to your choices and actions by assessing their viewpoints and the reasons behind them. In order to choose the best influence strategy and tactics and create win-win solutions, this information is essential.

Management by Wandering Around (MBWA):

After determining who the important actors are, you reach out to them and start establishing a rapport with them. Since managers at Hewlett Packard spend much of their time outside of their offices, establishing this relationship involves an interactive management style known as management by wandering around (MBWA).

Since there is a pattern or goal behind the "wandering," MBWA is a bit misleading. Project managers can stay informed about the true status of the project and foster the collaboration necessary for its success through in-person contacts.

Proficient project managers reach out to important stakeholders to stay updated on progress, foresee possible issues, offer support, and reaffirm the project's goals and vision. They have the ability to step in and settle disputes and avoid deadlocks. To put it simply, they "manage" the project. By remaining informed about several facets of the project, they become the information hub. Their primary function as project manager is further reinforced by the fact that participants look to them for the most up-to-date and thorough information about the project.

Successful project managers also make time to communicate with stakeholders farther away on a regular basis. They maintain communication with top management, vendors, suppliers, and others. By doing this, they stay acquainted with many parties, establish connections, find opportunities to provide a helping hand, and get insight into the needs and motivations of others. They promote their project's cause and remind others of their commitments. According to Snapshot from Practice 10.2: Managing Expectations, they also influence people's expectations.

By communicating often, they allay people's fears about the initiative, debunk rumors, alert individuals to possible issues, and provide the framework for handling setbacks more skillfully. Unless project managers are proactive in creating a network of support beforehand.

Snapshot from Practice 10.2 (Gray C. Project Management, The Managerial Process 8ed 2021)

SNAPSHOT FROM PRACTICE 10.2

Managing Expectations^{*}



Dorothy Kirk, a project management consultant and program manager with Financial Solutions Group of Mynd, offers several keen insights into the art of managing stakeholder expectations:

... expectations are hardy. All they need to take root is the absence of evidence to the contrary. Once rooted, the unspoken word encourages growth. They can develop and thrive without being grounded in reality. For this reason, project managers do daily battle with unrealistic expectations.

She goes on to offer several tips for managing expectations:

- The way you present information can either clarify or muddy expectations. For example, if you estimate that a task will take 317 hours, you are setting high expectations by your precision. The stakeholder is likely to be unhappy if it takes 323 hours. The stakeholder will not be unhappy with 323 hours if you quoted an estimate of 300–325 hours.
- Recognize that it is only human nature to interpret a situation in one's best interest. For example, if you tell someone it will be done by January, you are inclined to interpret it to your advantage and assume you have to the end of January, while the other person believes it will be done January 1st.
- Seize every opportunity to realign expectations with reality. Too often we avoid opportunities to adjust expectations because we hold on to a false hope that things will somehow work out.
- Do not ask for stakeholder suggestions for improvement if you do not intend to do something with their input. Asking for their input raises expectations.
- State the obvious. What is obvious to you may be obscure to others.
- Don't avoid delivering bad news. Communicate openly and in person. Expect some anger and frustration. Do not get defensive in return. Be prepared to explain the impact of the problems. For example, never say the project is going to be late without being able to give a new date. Explain what you are doing to see that this does not continue to happen.

All stakeholders have expectations about the schedule, cost, and project benefits. Project managers need to listen for, understand, and manage these expectations.

^{*}D. Kirk, "Managing Expectations," *PM Network*, August 2000, pp. 59–62.

Building relationships before they are needed is something that seasoned project managers understand. They reach out to the important parties when there are no unresolved concerns or

difficulties, and hence no misgivings or suspicions. They inherently participate in response banter and small conversation during these social events. They exchange information, offer consoling advice, and reply to others' appeals for assistance. By doing this, kids build positive relationships that will help them handle more difficult issues in the future.

Managing Upward Relations:

Studies repeatedly demonstrate that the level of top management support for a project has a significant impact on its success.³ An enough budget, flexibility in responding to unforeseen demands, and a clear communication to other members of the organization about the significance of the project and the necessity of collaboration are all examples of this kind of support.

In addition to being essential for gaining the support of other managers in an organization, visible top management support is also crucial for the project manager's capacity to inspire the project team. A manager's capacity to defend is what most clearly establishes his authority to lead. Project managers must effectively advocate for their projects in order to gain the support of their team members. They must be able to persuade upper management to drop irrational demands, supply more resources, and acknowledge team members' achievements. Saying this is easier said than done.

Although it would seem illogical for a subordinate to "manage" a superior, smart project managers invest a great deal of time and energy on swaying and winning over upper management. Project managers must learn to be adept at influencing superiors and embrace significant variations in viewpoint.

Perspective differences are a major source of conflict between project managers and senior management. Naturally, project managers focus on what will work best for their project. Their project is the most important thing in the world to them. The priorities of top management ought to be distinct. They care about what's best for the organization as a whole. These two interests will naturally clash from time to time. A project manager might, for instance, vigorously advocate for more workers, only to have their request denied because upper management feels that the other departments cannot afford to cut back. The project manager must acknowledge that senior management will unavoidably have a different perspective on the world, even though regular contact might reduce discrepancies.

It's all about timing. It will be far more difficult to request more funding the day after the third quarter's dismal earnings are announced than it will be to do so four weeks later. Effective project managers choose the best time to win over upper management. To advocate for their cause, they recruit sponsors for their projects. They also understand that the allowances made by upper

management are limited. The Lone Ranger analogy is relevant here: make good use of your limited supply of silver bullets.

Lastly, some project managers acknowledge that they overlook the line of command. They act without requesting permission if they are certain that a significant request would be denied by upper management and that their actions will advance the project. They assert that supervisors usually don't argue with success, despite the fact that this is quite dangerous.

Leading by Example

Project managers can use their most effective leadership tool—their own behavior—by adopting a highly visible, interactive management style, which is also crucial for establishing and maintaining cooperative relationships (Kouzes & Posner, 2012; Peters, 1988).

People frequently show a tendency to imitate the actions of those they respect and turn to others for guidance when faced with uncertainty. The actions of a project manager serve as a model for how other team members should approach the project. A project manager can affect how others behave and react to a range of project-related difficulties by modeling certain behaviors.

(For a striking illustration of this, see Snapshot from Practice 10.3: Leading at the Edge.)

Six aspects of leading by example are discussed as following (also refer to figure – 4):

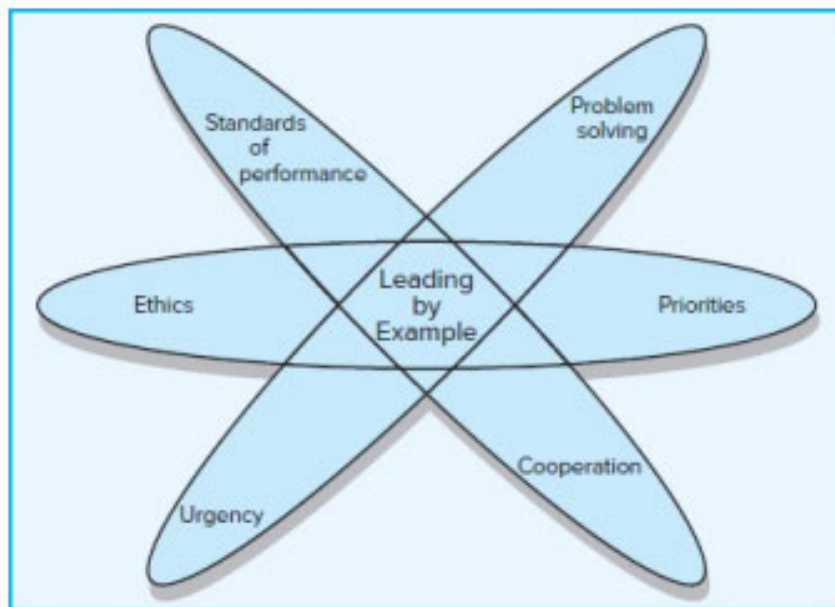


Figure. 4 (Leading by Example)

Snapshot from Practic.03 (Leading at the Edge) Grav C. Project Management. The Managerial Process 8ed 2021)



In 1914, the intrepid explorer Ernest Shackleton embarked on the *Endurance* with his team of sear scientists, intent upon crossing the unexplored Antarctic continent. What happened in the two years between their departure and their ultimate, incredible rescue has rarely been matched in the annals of survival: a ship crushed by expanding ice pack; a crew stranded on the floes of the frozen Weddell Sea; two perilous treks in open boats across a raging Southern Ocean; and a team marooned on wild, forlorn Elephant Island, stretched to the limits of human endurance.

This adventure provided the basis for the book *Leading at the Edge: Leadership Lessons from the Extraordinary Saga of Shackleton's Antarctic Expedition*, written by Dennis Perkins. Perkins provides numerous incidents of how Shackleton's personal example influenced the behavior of his beleaguered crew. For example, from the beginning of the Trans-Atlantic expedition to its end, Shackleton consistently encouraged behavior that emphasized caring and respect:

After the destruction of the *Endurance* Shackleton heated hot milk for the crew and went from tent to tent with the "life giving" drink. After the sail to the island of South Georgia, when the exhausted crew had landed, Shackleton took the first watch, which he kept for three hours instead of the usual one.

Crew members emulated the caring behaviors that Shackleton modeled. A good example of this occurred during one of the most dramatic moments in the *Endurance* saga. The food supply had dwindled to perilously low levels. Less than a week's supply remained, and the tiny ration of seal steak usually served at breakfast was eliminated. The waste meat generally used to feed the dogs was inspected for edible scraps.

Under these wretched conditions, and after a wet, sleepless night, an argument broke out among some of the team members. Caught in the middle, one crew member (Greenstreet) spilled his tiny ration of powdered milk and shouted at the biologist (Clark). Alfred Lansing described what happened next:



Source: Library of Congress, Prints & Photographs Division, LC-USZ62-17180.

Greenstreet paused to get his breath, and in that instant his anger was spent and he suddenly fell silent. Everyone else in the tent became quiet, too, and looked at Greenstreet, shaggy-haired, bearded, and filthy with blubber soot, holding his empty mug in his hand and looking helplessly down into the snow that had thirstily soaked up his precious milk. The loss was so tragic he seemed almost on the point of weeping. Without speaking, Clark reached out and poured some milk into Greenstreet's mug. Then Worsely, then Macklin, and Rickerson and Kerr, Orde-Lees, and finally Blackborrow. They finished in silence.

Priorities: Deeds are more powerful than words. The way that project managers use their time reveals their priorities to subordinates and others. All of a project manager's verbal pledges are likely to be ignored if she asserts that this project is crucial but is later seen as spending more time on other projects. On the other hand, a project manager who spends time observing the relevance of

the testers and their work is confirmed by doing critical tests rather than only waiting for a report. Similarly, the questions that project managers ask convey priorities. A project manager might emphasize the significance of customer satisfaction by continually questioning how particular challenges relate to meeting the needs of the client.

Urgency: Project managers can communicate a sense of urgency by their behaviors, and this sense can permeate all aspects of project activities. Strict deadlines, regular status report meetings, and aggressive project-speeding solutions are some ways to communicate this urgency. To keep track of the project's rhythm, the project manager employs these tools as a metronome.

At the same time, if the project manager's conduct does not change in tandem, these tools will be useless. Project managers must work more quickly themselves if they expect people to work and solve issues more quickly. Their own behavior needs to pick up speed. Their interactions should be more frequent, they should walk and chat faster, they should arrive at work earlier, and they should depart later. Project managers can instill a sense of urgency in others by merely quickening the speed of their regular interactions.

Problem Solving: The way that project managers handle issues sets the standard for how others handle them. Others will be reluctant to share negative news if it is met with verbal abuse.⁴ Others will try to hide their tracks and shift the blame elsewhere if the project manager is more focused on identifying the guilty party than on how to stop issues from occurring in the future. Others are more likely to take a more proactive approach to problem solving, however, if project managers concentrate more on how they may use a problem as an opportunity or what can be learnt from a mistake.

Cooperation: Team members' interactions with external parties are influenced by the way project managers behave. When a project manager makes negative comments about the "idiots" in the marketing department, the team as a whole frequently adopts this viewpoint. It is more probable that others will follow suit if project managers establish the standard of showing respect and being attentive to the demands of outsiders.

Standards of Performance: Experienced project managers understand that they must surpass others' expectations of a competent project manager if they wish to see participants surpass project expectations. The caliber of their everyday interactions sets a high bar for project performance. They attend to others' needs promptly, plan and conduct meetings with precision, keep abreast of all the relevant issues, assist in addressing problems effectively, and maintain their position on crucial subjects.

Ethics: The way a project manager handles ethical quandaries during a project will impact how others handle similar situations afterwards. Team members frequently base their decisions on how they believe the project manager would react.

Project managers send a message to others that this type of behavior is acceptable if they purposefully misrepresent or omit important information from clients or upper management. Project management inevitably leads to a number of ethical conundrums; now would be a good time to get deeper into this subject.

8.1.5 Ethics and Project Management

Due to the complexity of project management, ethics always entail ambiguous regions of interpretation and judgment. For instance, it is challenging to discern intentional exaggeration of project payoffs from sincere optimism or malicious fabrication of projections from honest errors. Determining whether unmet promises were intentional deception or a suitable reaction to evolving circumstances becomes hard.

Many businesses and professional associations release a code of conduct to help clarify corporate ethics. Advocates contend that these documents are significant, if constrained, initial steps, while cynics view them as merely window dressing. Personal ethics are found at the intersection of one's work, family, education, profession, religious views, and everyday interactions rather than in formal statutes. According to the majority of project managers, they depend on their own personal moral compass, or what one project manager referred to as his "internal compass."

According to a lot of project managers, acting morally is rewarding in and of itself. Your behavior reflects your personal ideals when you act in accordance with your internal compass. According to some, acting morally has two benefits. In addition to being able to sleep at night, you also build a solid and respectable reputation. Such a reputation is crucial to building the trust required to successfully use influence, as will be discussed in the following section.

Snapshot from Practic.04 (The Collapse of Arthur Andersen) Gray C. Project Management.
The Managerial Process 8ed 2021)

SNAPSHOT FROM PRACTICE 10.4

The Collapse of Arthur Andersen*



"Think straight and talk straight" was the principle on which Arthur E. Andersen built his accounting firm in the early 1900s. It was a phrase his mother taught him and became the firm's motto. The commitment to integrity and a systematic, planned approach to work were instrumental in Arthur Andersen becoming one of the largest and best-known accounting firms in the world.

According to the book *Inside Arthur Anderson* by Susan Squires and colleagues,

Working for Arthur Andersen was not for everyone. It could be a tough culture. It was much too hierarchical and top down for the more free spirited. Many people left after less than two years, believing the rewards did not warrant the demands that were made on them. Others learned to play by the rules and some even thrived. To remain in the firm, staff members were expected to work hard, respect authority of rank, and maintain a high level of conformity. In return they were rewarded with support, promotion, and the possibility of making partner. Those individuals who made a career with the firm grew old together, professionally and personally, and most had never worked anywhere else. To these survivors, Andersen was their second family, and they developed strong loyalties to the firm and its culture. (p. 133)

On October 23, 2001, David Duncan told his Houston- based Enron project team that they needed to start complying with Andersen's new policy on handling audit documents. The policy had been instituted to make sure that the firm's extraneous paperwork could not be used in court cases. Although the document retention policy required that papers supporting the firm's opinions and audit be retained, it allowed a broad category of secondary documents to be destroyed. The team reacted with stunned silence to Duncan's directive. Then everyone got up and began racing to do what they had been told to do. No one asked Duncan to explain further. None asked whether what they were doing was wrong. No one questioned whether what he or she were doing might be illegal. Andersen's Houston staff just reacted, following orders without question.



Ingram Publishing

On November 9, 2001, the day after the Securities Exchange Commission (SEC) issued a subpoena to Andersen, the shredding stopped. More than one ton of documents had been destroyed and 30,000 e-mails and Enron-related computer files erased. According to Andersen's legal defense team, the shredding was business as usual. The lawyers claimed that the shredding was standard practice for eliminating unnecessary files. To the SEC, it appeared to be the start of a deep cover-up operation. Subsequently one of the most respected accounting firms in the world closed its doors.

*Susan E. Squires, Cynthia J. Smith, Lorna McDougall, and William R. Yeak, *Inside Arthur Andersen: Shifting Values, Unexpected Consequences* (Upper Saddle River, NJ: Prentice Hall, 2004).

8.1.6 Building Trust: The Key to Exercising Influence

The absence of trust is a sign of its importance. Consider the difference in a working relationship between mistrusting and trusting the other person.

The concept of trust is elusive. The reasons why certain project managers are trusted while others are not are difficult to pinpoint in detail. The idea that trust is a function of competence and character is a common one. While competence focuses on the abilities required to actualize motives (e.g., does he or she know the proper things to do?), character focuses on personal motives (e.g., does he or she desire to do the right thing?).

Stephen Covey's best-selling book, *Seven Habits of Highly Effective People*, revived the importance of character in the leadership literature. Covey attacked popular management literature for emphasizing deceptive tactics and superficial human relations skills, which he called the personality ethic. He contends that a strong sense of personal values and principles, such as respect, justice, service, dignity, and the quest of truth, form the foundation of highly productive people.

Consistency is one of the qualities that set character apart. People are inherently more predictable when they follow a core set of principles since their behavior is in line with these values. Openness is another aspect of character. People are more open to others when they know exactly who they are and what they value. This characteristic gives them the ability to sympathize and the skill to bring disparate individuals together. Lastly, having a feeling of purpose is another trait of character. Characteristic managers are motivated by the greater good in addition to their own goals. What is best for the project and their organization, not for themselves, is their top priority. The respect, loyalty, and trust of others are earned by this readiness to put a greater good ahead of one's own interests.

Trust cannot be built on character alone. Before we can truly trust someone, we must first have faith in their competence (Kanter, 1979). We have all encountered well-meaning bosses that we like but do not trust due to their track record of breaking commitments. We may become friends with these managers, but we don't want to work for or with them.

Competence manifests itself on several levels. The first is task-related knowledge and abilities, which are demonstrated by the capacity to respond to inquiries, resolve technical issues, and perform exceptionally well in particular types of work. Secondly, interpersonal competence is proven through the ability to listen well, speak clearly, settle disputes, offer support, and so on. Organizational competence comes last.

This entails having the ability to organize productive meetings, establish worthwhile goals, cut down on inefficiencies, and create a social network. Young engineers and other professionals all too frequently have a tendency to overvalue technical or task proficiency. They undervalue the

importance of being well-organized. Conversely, veteran professionals appreciate interpersonal and organizational abilities more and understand the significance of management.

One issue that new project managers face is that developing a feeling of competence and character takes time. When put to the test, such as when faced with a difficult decision or a challenging challenge to address, character and competency are frequently displayed. Experienced project managers benefit from a solid reputation and proven track record of accomplishment. Even though a rookie project manager can make a good first impression with the support of reputable sponsors, her actions will eventually determine whether or not she can be trusted.

8.1.7 Qualities of an Effective Project Manager

Since there is an underlying logic to the process, project management appears to be a deceptive discipline. From defining a project scope statement to establishing a work breakdown structure (WBS), building a network, adding resources, completing a plan, and hitting milestones, there is a logical progression. However, this reasoning can soon fall apart when it comes to actually carrying out and finishing initiatives. Project managers frequently deal with a messier, more contradictory, and paradoxical world. The paradoxical character of their work is something that effective project managers must be able to handle. The following is a list of some of those contradictions:

Maintain stability while innovating: Project managers must put out fires, reestablish order, and bring the project back on course. They must simultaneously be creative and create fresh, more effective methods of accomplishing tasks. Innovations disrupt routines and can lead to other disruptions that require attention.

See the big picture while getting their hands dirty: Project managers must have a broad perspective and understand how their project fits into their company's overall strategy. They occasionally have to become quite active with technology and project work. Who will care about the specifics if they don't?

Encourage individuals but stress the team: While preserving teamwork, project managers must inspire, persuade, and lure individual performers. They must take care to treat each team member as a unique individual while still being regarded as fair and consistent in their treatment of them.

Be hands-off/hands-on: Project managers must step in, break deadlocks, fix technical issues, and insist on alternative strategies. They must simultaneously know when it's acceptable to take a backseat and let others do the fighting.

Be flexible but firm: Project managers must be flexible and sensitive to the happenings and results of the project. However, there are moments when they must persevere and hold the line when everyone else wants to give up.

Manage team versus organizational loyalties: It is the responsibility of project managers to create a cohesive team whose members inspire each other to achieve exceptional results. However, they must simultaneously combat the team's intolerance to outside ideas and the excesses of cohesiveness. They must develop allegiances to the parent company as well as the team.

Being a successful project manager does not require a single management approach or set of rules. Project management is too complex a field to be governed by formulas. Effective project managers are adept at changing their approaches depending on the context.

Sometimes it seems like someone with superhuman abilities is needed to be a good project manager. There are certain fundamental qualities and abilities that can be cultivated to effectively manage a project, even though not everyone possesses these abilities. Eight of these characteristics are as follows:

Effective communication skills: For a project to be successful, communication is essential. Project managers must be sympathetic listeners and speak the language of many stakeholders.

Systems thinking: Instead of approaching projects in a reductionist manner, project managers need to be able to adopt a holistic approach. A systems approach concentrates on attempting to comprehend how pertinent project components interact collectively to produce project outcomes, as opposed to dissecting a project into discrete parts (budget, planning) and controlling it by comprehending each component. After then, controlling how various components interact rather than the components themselves becomes crucial to success.

Personal integrity: You must be able to lead and manage yourself before you can lead and manage others (Bennis, 1989). Establishing a clear understanding of your identity, values, and appropriate conduct should be your first step. This inner strength gives you the credibility you need to keep other people's trust and the buoyancy to weather the ups and downs of the project life cycle.

Proactivity: Effective project managers act before it's necessary to stop minor issues from becoming bigger ones. Instead of focusing on matters over which they have little control, they try to solve problems within their sphere of influence for the majority of the day. Project managers are not allowed to complain.

High emotional intelligence (EQ): Not everyone is cut out for project management. When things get a little out of control, project managers need to be able to regulate their emotions and react to people in a positive way. To learn more about this trait, see Research Highlight 10.2: Emotional Intelligence.

General business perspective: It is crucial for a manager to have a comprehensive understanding of business principles and how the many functional disciplines interact to contribute to a successful business, as the main responsibility of a project manager is to combine the contributions of various technical and business disciplines.

Effective time management: The most valuable resource for a manager is time. Time management skills and the ability to swiftly rearrange priorities are essential for project managers. To ensure that nobody feels overlooked, they must strike a balance in their interactions.

Optimism: Project managers must have a positive outlook. On a gloomy day, they must be able to discover rays of sunshine and have an optimistic attitude. A project manager's greatest assets are frequently a lighthearted disposition and a decent sense of humor.

Research Highlight 10.2

Research Highlight 10.2

Emotional Intelligence*



Emotional intelligence (EQ) is the ability or skill to perceive, assess, and manage the emotions of oneself and others. Although the notion of EQ emerged in the 1920s, it was not until Daniel Goleman published his book *Emotional Intelligence* that the concept captured the attention of business people and the public alike.

Goleman divided EQ into the following five emotional competencies:

- **Self-awareness**—knowing your emotions, recognizing feelings as they occur, and understanding the link between your emotions and your behavior. Self-awareness is reflected in confidence, a realistic assessment of personal strengths/weaknesses, and an ability to make fun of oneself.
- **Self-regulation**—being able to control disruptive impulses and moods and respond appropriately to situations. Self-regulation is reflected in trustworthiness and openness to change.
- **Self-motivation**—being able to gather up your feelings and pursue goals with energy, passion, and persistence. The hallmarks of self-motivation include a strong desire to achieve and internal optimism.
- **Empathy**—being able to recognize the feelings of others and tuning in to their verbal and nonverbal cues. Empathy is reflected in the ability to sustain relationships and in cross-cultural sensitivity.
- **Social skills**—being able to build social networks and rapport with different kinds of people. Social skills include being able to lead change, resolve conflicts, and build effective teams.

Not much imagination is needed to see how EQ would contribute to being an effective project manager.

In Goleman's view, these competences build on each other in a hierarchy. At the bottom of his hierarchy is self-awareness. Some level of self-awareness is needed to move to self-regulation. Ultimately social skills require all four of the other competencies in order to begin to be proficient at leading others. Experts believe that most people can learn to significantly increase their EQ. Numerous training programs and materials have emerged to help individuals realize their EQ potential.

*Bradberry, T., and J. Graves, *The Emotional Intelligence Quick Book: How to Put Your EQ to Work* (New York: Simon & Schuster, 2005); Maqbool., R., Y. Sudong, N. Manzoor, and Y. Rashid, "The Impact of Emotional Intelligence, Project Manager's Competencies, and Transformational Leadership on Project Success," *Project Management Journal*, vol. 48, no. 3, 2017, pp. 58–75.

How does one acquire these qualities, then? One can improve their ability to think in systems and their overall business viewpoint through workshops, self-study, and classes. Communication and emotional intelligence can be enhanced through training programs.

Techniques for managing time and stress can also be taught to people. However, we are not aware of any workshop or magic elixir that can give someone a sense of purpose when they lack one or turn a pessimist into an optimist. These characteristics strike at a person's core essence. Without an innate tendency to exhibit these, it is difficult to cultivate optimism, honesty, and even proactivity.

Chapter Two

Previous Studies

Introduction:

In today's fast-paced and constantly evolving business world, effective communications are crucial for project success, as demonstrated by earlier studies that emphasized and clarified their importance in project management.

The subjects covered in the list below include the impact of effective communication on project management, the effect of leadership abilities on project success, and a number of driving competencies that break down the ways in which these attributes impact project success.

Recommendation, evidences and conclusions of these studies form a solid foundation leading to a better and enhanced training and development in the field of the communication.

Previous Studies:

- 1- The impact of project communication management on successful project delivery in the construction industry: A case study
Mr. Sunday Olufemi Akintelu, Mr. Abiodun Isaac Oyebola
- 2- The Effects Of Communication On Project Success: Case Of Selected Construction Projects In Hargeisa, Somaliland
Mr. Samina Khan, Mr. Mohamed Mahdi Adam
- 3- THE IMPACT OF COMMUNICATION ON PROJECT PERFORMANCE: AN EMPIRICAL STUDY
Mr. Kwete Mwana Nyandongo
- 4- ANALYSIS OF EFFECTIVE COMMUNICATION AND PROJECT SUCCESS: SURVEY ON ELECTRICITY ACCESS ROLL-OUT PROJECT AT EDCL-EARP
Prof. Dr. Mbonigaba Celestin
- 5 - Impact of Project Manager's Interpersonal Leadership Skills on Project Success
Mr. Manazar Hussain Awan, Mr. Kashif Ahmed, Wajid Zulqarnain
- 6 - Do the Project Manager's Interpersonal Skills Matter? Impacts of the Project Manager's Emotional Intelligence, Trustworthiness, and Job Satisfaction on Project Success

Dependent Variables

Project success defined in the classic criterion from practice as a measure of the immediate performance of a project against its main design parameters schedule (time), budget (cost), scope, and/or quality.

According to the traditional method, a post-project review evaluates performance by determining whether the project was finished "on time, within budget, and to specification." If all of them fell inside a small tolerance range, the project is considered successful.

Punctuality, or the percentage of tasks you manage to do by the work unit's deadline, is frequently used to describe completing all scope activities on time. A 100% punctuality rate indicates that every assignment you are thinking about has been finished by the work unit's respective deadline.

Table 1. Dependent Variable

Variable	Indicator	
Project Success (Y)	Y1	Competitive Cost
	Y2	Quality Sustainability
	Y3	Punctuality

Independent Variables:

Project team performance is not the only factor that determines a project's success. The contributions of senior management, functional managers, clients, vendors, contractors, and others frequently determine whether a project succeeds or fails.

The paradoxical character of their work is something that effective project managers must be able to handle. The performance and success of the project will be impacted or improved by their interpersonal skills.

Table 2. Independent Variables

Variable	Indicator	
Leadership (X1)	X1.1	Solving technical problems
	X1.2	Serves as peacemaker when tensions rise
	X1.3	Makes appropriate tradeoffs of time, cost, and scope
	X1.4	build a cooperative network among divergent allies.
Engaging Project Stakeholders (X2)	X2.1	Negotiating and working with different stakeholders
	X2.2	Broader spectrum of influence
	X2.3	Develop methods for managing the dependency
	X2.4	Buffer the team from excessive interference from a client
	X2.5	Sound communication skills
	X2.6	Political savvy
Influence as Exchange (X3)	X3.1	Provide services for others in exchange for future services
	X3.2	Ability to contribute to others' accomplishing their work.
	X3.3	ability to respond to subordinates' requests for additional resources
	X3.4	Ability to enhance others' positions within their organization
Social Network Building (X4)	X4.1	Identifying the stakeholders on whom the project depends for success.
	X4.2	Diagnosing others' points of view
	X4.3	Initiate contact and begin to build a relationship
	X4.4	Working relationships with upper management
Building Trust (X5)	X5.1	Character ethic
	X5.2	Task related, Interpersonal and organizational Competency
	X5.3	Connecting, exhibiting warmth and concern
Interpersonal Qualities (X6)	X6.1	Innovate and maintain stability
	X6.2	See the big picture while getting their hands dirty
	X6.3	Encourage individuals but stress the team
	X6.4	Be hands-off/hands-on
	X6.5	Be flexible but firm
	X6.6	Effective communication skills
Emotional Intelligence (X7)	X7.1	Self-awareness
	X7.2	Self-regulation
	X7.3	Self-motivation
	X7.4	Empathy
	X7.5	Social skills
Conflict Management (X8)	X8.1	Encouraging Functional Conflict
	X8.2	Managing Dysfunctional Conflict
	X8.3	Reading body language to identify unspoken disagreement

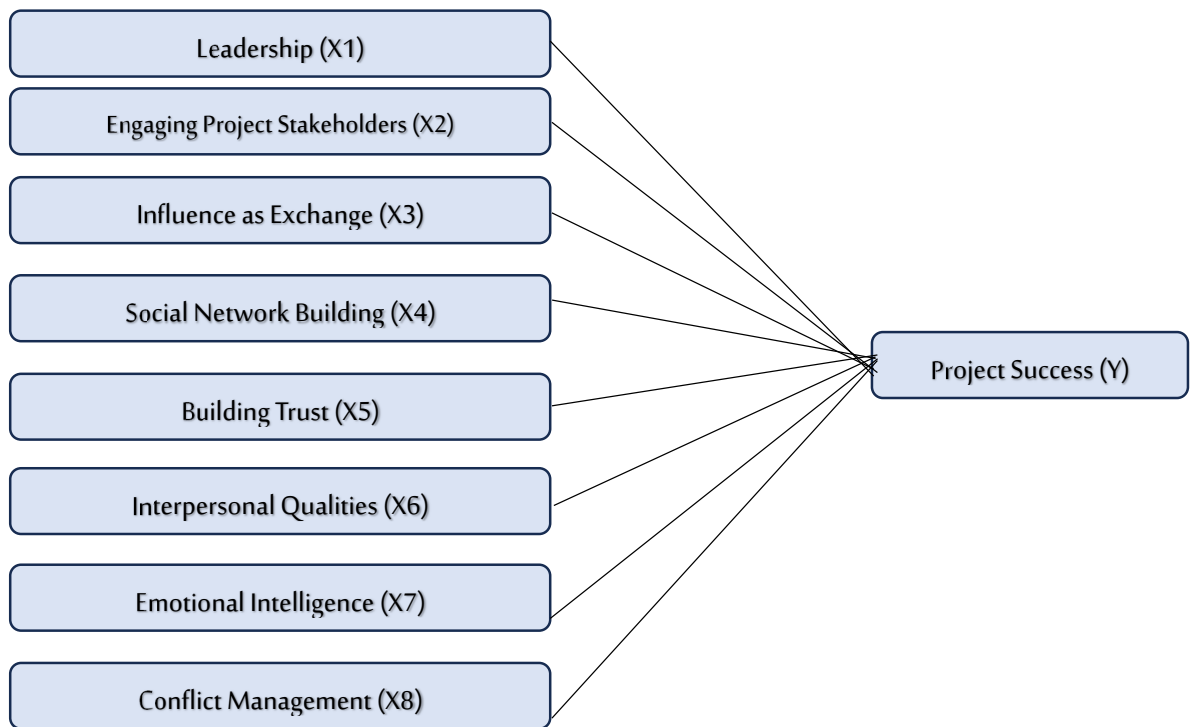


Figure -1. Schematic of variable X and variable Y

Summary of Previous Studies:

In their study of - Impact of Effective Communication on Project Success - Manazar Hussain, Mr. Kashif Ahmed and Wajid Zulqarnain where they test hypotheses were tested and all were accepted. The study amply highlights the importance of project managers' coordination, communication problem finding, analyzing and solving skills.

Dr. Anupama Jena, Swasti Suvasweta Satpathy highlighted in his study titled: *Importance of Soft Skills in Project Management Website: www.ijssrm.in ISSN (e): 2321-3418*, that hard skills and soft skills cross over each other in all the stages of project management. All the soft skills that a project manager needs are not one time endeavors but threads applied throughout the project. Since soft skills spread widely through personal and interpersonal attributes, it must be recognized from the simple gesture of day-to-day activities to the complex management activities at workplace. So, to fit the right soft skill at the proper place is the need of the hour.

Another study titled: Do the Project Manager's Soft Skills Matter? (by Marcela Castro, André Barcaui and Ronnie Figueiredo) concluded that there is a growing trend toward soft skills and reinforce the need to fill the gap between 'hardcore' measures of project success and its antecedents. Therefore, the findings contribute to the project management literature in terms of the communication management as impacting factors on project success.

Project managers' competencies impact project success was studied by Paola Ochoa Pacheco, David Coello-Montecel, Michelle Tello, Virginia Lasio, Alfredo Armijos, December 7, 2023 and they concluded that firstly, project success is a multidimensional construct that comprises three main dimensions: impact on stakeholders, impact on the organization, and general project management. Secondly, the available data suggested that greater levels of project managers' competencies are associated with improved project success rate.

Finally, in their study titled: Analysis of The Success of Construction Projects Based on Labor Productivity, *Malia Urrahmi1 OF**, *Cut Zukhrina Oktaviani1*, and Mubarak, concluded that a successful project should have a valuable asset, namely a good workforce that can produce high productivity under the auspices of the project manager. Productivity is the dominant aspect that drives the effective use of resources in the construction industry.

Research Gap:

According to the previous studies discussed above, they highlight the importance of communication management and interpersonal skills required to implement these management plans as well.

For this reason, it is important to shade the light at the effective communication taking into account the enhance factors for possessing the communication management plans, and the impact of lack of communication on the project success measuring their influence and interdependencies.

In practice, there are countless cases where the team members, project success affected directly by the lake of communication. Therefore, we will be studying those areas in addition to the individual qualities among the targeted population.

The Theoretical Framework:

A theoretical framework consists of concepts and their definitions and reference to relevant scholarly literature, existing theories that are used for a particular study. The theoretical framework demonstrates an understanding of theories and concepts that are relevant to the topic of the research paper and that relate to the broader areas of knowledge being considered.

Theories in the research

1- Communication Theory

Communication theory provides a conceptual framework for understanding how information is transmitted, received, and interpreted among stakeholders. Models such as Shannon and Weaver's communication model emphasize the importance of message clarity, channel selection, and feedback to reduce noise and ensure effective exchange of information

2- Stakeholder Theory

Stakeholder theory suggests that projects involve multiple stakeholders with diverse and sometimes conflicting interests. Effective communication is essential to align stakeholder expectations, manage conflicts, and secure commitment to project goals, thereby increasing the likelihood of project success

3- Project Management Theory

Within project management theory (PMBOK, PRINCE2 frameworks), communication management is considered a critical knowledge area. These frameworks highlight communication planning, information distribution, performance reporting, and stakeholder engagement as key processes that contribute to project success

4- Social Exchange Theory

This theory explains that relationships are built on reciprocal exchanges of information and trust. In projects, effective communication fosters trust among team members and stakeholders, which is vital for cooperation and achieving shared goals

5- Systems Theory

Systems theory views a project as an interconnected system of people, processes, and resources. Communication acts as the mechanism that integrates these subsystems, coordinating activities and aligning objectives to achieve project outcomes

Chapter Three

Research Methodology

Introduction:

The research methodology of this topic will involve a series of systematic steps aimed at comprehensively and accurately studying the impact of effective communication on project success. A quantitative research approach will be used, as it is suitable for objectively collecting and analyzing quantitative data.

The research adopted a positive approach philosophy, the arguments represent that the quantifiable effects of effective communication on project success are studied. Interpersonal and soft skills can be viewed as a personal behavior. With project managers reactions to certain events during different phases of the project.

Research Methodologies and Tools:

Scientific Methodology

The scientific methodology a systematic approach to investigate the relationship between effective communication and project success. allows to develop and test hypotheses as detailed below:

- Problem Identification
- Literature Review
- Hypothesis Development
- Research Design
- Data Collection
- Data Analysis
- Conclusion and Recommendations

Descriptive Methodology

This methodology is used to describe the current status of the project or market by collecting and analyzing the data. It is usually used for:

- Market studies: to understand customer requirements and needs.
- External environment study: to understand the impact of external factors such as the economy and regulations on the project.

Experimental Methodology

This approach relies on experimentation and testing. A set of experiments or trial models are carried out to evaluate the effectiveness of strategies for testing the project idea or solving a specific problem. This method is typically used to try new ideas or test different solutions before full implementation.

Analytical Methodology

In this approach, the available data is analyzed accurately to understand the relationships between different variables. This method can be used to analyze:

- Risks: Identifying potential risks for the project and analyzing how to deal with each one separately.
- Cost and Benefit: Comparing the expected costs with the potential benefits to determine the project's feasibility.

Study Tools

To achieve the objectives of this study and ensure comprehensive data collection questionnaire tool is designed to capture both quantitative and qualitative information regarding communication approaches and their impact on project success:

1- Questionnaires:

They will be designed to include a number of questions that measure the communication skills of project managers, including soft skills, leadership, emotional intelligence, and conflict resolution. Participants in the study will be asked to evaluate the level of these skills and their impact on the success of the projects they manage. The questionnaire will be distributed to project managers that considered as well-informed individuals, calling on their insights and experience, who are better equipped to provide experience-based feedback than theoretical approaches or statistical methods. Their responses to these questionnaires are anonymous, which will provided a summary of opinions.

2- Random Sampling method:

This method will be used particularly to select random participants for the study. In which it will help reduce bias and increase the generalization of the results. The sample is expected to include project managers from different fields, whether from small or large organizations, providing different insights about the impact of effective communication in different contexts.

The step that will follow the data collection, will be analyzing the results using statistical analysis tools, such as regression analysis, to understand the relationship between communications and project success. The analyses will help determine the importance of the relationship between the studied variables, providing strong evidence to support the proposed hypotheses.

Additionally, qualitative interviews will be conducted with several project managers to have an in-depth and extensive understanding of how effective communication management plans are applied and developed in the workplace. These interviews will provide additional insights into the challenges and opportunities managers face in using their personal skills to achieve project success.

In conclusion, the methodology will combine quantitative and qualitative data, allowing for a

comprehensive analysis of the topic and enhancing the credibility of the findings. This research is expected to contribute to the academic literature on project management as well as providing practical recommendations for managers to enhance their communication skills and improve the outcomes of the projects they manage. It also considered to be a methodical efforts to examine, investigate as well as restructure the realities, theories and applications.

Target Population:

The research targets projects directors, project managers, programme managers, senior resident/resident engineers and functional managers, using an online form to gather different views from multi-discipline professionals.

Another group of data will be collected through personal interviews with programme/ projects directors and managers currently on the job within Al Manar Project in Makkah Al-Mukarramah, The western region of the kingdom of Saudi Arabia to express their practical experience via the different levels of involvement in the projects.

The selected project represents one of the largest projects in the western region of the kingdom of Saudi Arabia, it is also a mix use masterplan development, in which the interface, engineering and managers in the project is one of the challenges to be overcome. Collecting the input from different line managers in this project provide a practical experience-based knowledge of how possessing or lack of the effective communication can affect the project performance and hence the project success.

Sample Characteristics:

First group who will participate via questionnaire, will be project managers that considered as well-informed individuals, calling on their insights and experience, who are better equipped to provide experience-based feedback. Their responses to these questionnaires are anonymous, which will provided a summary of opinions.

Second sample, the sample is expected to include project managers from different fields, whether from small or large organizations, providing different insights about the impact of effective communication in different contexts.

Also, qualitative interviews will be conducted with several project managers to have an in-depth and extensive understanding of how communication skills are applied and developed in the workplace.

Study Limitation

The research will rely on surveys and questionnaire with project managers and project team members from infrastructure projects located within the western region of the Kingdom of Saudi Arabia.

Chapter Four

Results and Recommendations

Introduction:

The study will be conducted based on the three methods described in the research methodologies and tools section, with each of the methods the findings and reports will be analyzed to produce the final discussion and conclusion based on qualitative and quantitative results and measurement of interdependencies.

The collected data can be found in the attached appendixes section

Data Collection:

Data collected using questionnaire is attached in the appendixes

Data Analysis using IBM SPSS:

Overview:

This chapter presents and discusses the research on how the effective communication impact on project success.

The sample characteristics and the study variables are described in the following Sections, which is based on indicators. The descriptive statistics and correlation.

Sample Description:

Respondents aged 20-30 were smallest group who constituted less than 7%. Those who are 31-40 were about 53.3% of all respondents. Respondents aged 41-50 were about 36.7%, whereas group aged 51-60 were about 3.3%. In general majority of respondents were middle aged.

		Age			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	20 - 30 Years Old	2	6.7	6.7	6.7
	31 - 40 Years Old	16	53.3	53.3	60.0
	41 - 50 Years Old	11	36.7	36.7	96.7
	51-60 Years Old	1	3.3	3.3	100.0
Total		30	100.0	100.0	

Table 3 Age Frequency.

Discussion of the Findings:

The study's objective was to determine the impact of effective communication on project success. Descriptive statistics were used to test the analytical hypothesis. The information derived from data analysis is elaborated in the discussion.

With reference to table 4 below, the most two characteristics that are essential to ensure the communication is effective are Strong Interpersonal Skills and to have communication management plan in place

Statistics

Is_the_communication_management_plan_in_place_before_commencing_the_work?

N	Valid	30
	Missing	0

Is_the_communication_management_plan_in_place_befor
e_commencing_the_work?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	5	16.7	16.7	16.7
	Yes	25	83.3	83.3	100.0
	Total	30	100.0	100.0	

Statistics

Do_you_believe_that_the_interpersonal_skills_are_essential_for_effective_communication?

N	Valid	30
	Missing	0

Do_you_believe_that_the_interpersonal_skills_are_essenti
al_for_effective_communication?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.3	3.3	3.3
	No	1	3.3	3.3	6.7
	Yes	28	93.3	93.3	100.0
	Total	30	100.0	100.0	

Frequencies

Frequencies

Statistics

Gender

N	Valid	30
	Missing	0

Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Female	8	26.7	26.7	26.7
	Male	22	73.3	73.3	100.0
	Total	30	100.0	100.0	

Frequencies

Statistics

Age

N	Valid	30
	Missing	0

Age

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	20 - 30 Years Old	2	6.7	6.7	6.7
	31 - 40 Years Old	16	53.3	53.3	60.0
	41 - 50 Years Old	11	36.7	36.7	96.7
	51-60 Years Old	1	3.3	3.3	100.0
	Total	30	100.0	100.0	

Frequencies

Statistics

Level_of_Education

N	Valid	30
	Missing	0

Level_of_Education

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.3	3.3	3.3
	Bsc	17	56.7	56.7	60.0
	Msc	12	40.0	40.0	100.0
	Total	30	100.0	100.0	

Frequencies

Statistics

Years_of_Experience

N	Valid	30
	Missing	0

Years_of_Experience

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0-5 Years	2	6.7	6.7	6.7
	11-15 Years	7	23.3	23.3	30.0
	6-10 Years	9	30.0	30.0	60.0
	Above 15 Years	12	40.0	40.0	100.0
	Total	30	100.0	100.0	

Statistics

Type_of_Project

N	Valid	30
	Missing	0

Type_of_Project

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	3.3	3.3	3.3
Giga	7	23.3	23.3	26.7
GIGA	1	3.3	3.3	30.0
Mega	11	36.7	36.7	66.7
Project with budget less than 1 billion USD	10	33.3	33.3	100.0
Total	30	100.0	100.0	

Statistics

Which_kind_of_professional_certificates_do_you_have?

N	Valid	30
	Missing	0

Which_kind_of_professional_certificates_do_you_have?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4	13.3	13.3	13.3
BMS	1	3.3	3.3	16.7
Data analysis	1	3.3	3.3	20.0
Iso 9001	1	3.3	3.3	23.3
PgMP	1	3.3	3.3	26.7
PMI-RMP	1	3.3	3.3	30.0
PMP	12	40.0	40.0	70.0
PMP;Ccnp	1	3.3	3.3	73.3
PMP;LEED GREEN ASSOCIATE	1	3.3	3.3	76.7
PMP;P3O;PMI-PMOCP	1	3.3	3.3	80.0
PMP;PgMP;PiMP;PMI-RMP; PMI-SP	1	3.3	3.3	83.3
PMP;PMI-PMOCP	1	3.3	3.3	86.7
PMP;PMI-RMP	3	10.0	10.0	96.7
PMP;PMI-RMP;PMI-SP;PSP	1	3.3	3.3	100.0
Total	30	100.0	100.0	

Frequencies

Statistics

Is_the_communication_management_plan_in_place_before_commencing_the_work?

N	Valid	30
	Missing	0

Is_the_communication_management_plan_in_place_befor
e_commencing_the_work?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	5	16.7	16.7	16.7
	Yes	25	83.3	83.3	100.0
	Total	30	100.0	100.0	

Statistics

Is_the_communication_management_plan_revised_as_the_project_progresses?

N	Valid	30
	Missing	0

Is_the_communication_management_plan_revised_as_the
_project_progresses?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	10	33.3	33.3	33.3
	Yes	20	66.7	66.7	100.0
	Total	30	100.0	100.0	

Statistics

N	Valid	30
	Missing	0

Is_the_communication_management_plan_considering_the
involvement_of_new_stakeholders_during_the_project_life_cycl e?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.3	3.3	3.3
	No	4	13.3	13.3	16.7
	Some time	1	3.3	3.3	20.0
	Yes	24	80.0	80.0	100.0
	Total	30	100.0	100.0	

Statistics

Is_there_a_RACI_matrix_already_in_place_for_your_project?

N	Valid	30
	Missing	0

Is_there_a_RACI_matrix_already_in_place_for_your_project?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	5	16.7	16.7	16.7
	Really i dont know	1	3.3	3.3	20.0
	Yes	24	80.0	80.0	100.0
	Total	30	100.0	100.0	

Statistics

Is_the_communication_matrix_already_in_place_and_active_for_your_project?

N	Valid	30
	Missing	0

Is_the_communication_matrix_already_in_place_and_active_for_your_project?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	9	30.0	30.0	30.0
	Yes	20	66.7	66.7	96.7
	Yes, But not active	1	3.3	3.3	100.0
	Total	30	100.0	100.0	

Statistics

Are_the_communication_channels_identified?

N	Valid	30
	Missing	0

Are_the_communication_channels_identified?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	7	23.3	23.3	23.3
	Yes	23	76.7	76.7	100.0
	Total	30	100.0	100.0	

Statistics

Are_the_challenges_and_technical_issues_may_affect_the_communication_channels_considered?

N	Valid	30
	Missing	0

Are_the_challenges_and_technical_issues_may_affect_the_communication_channels_considered?_If_yes_please_specify_the_alternatives.

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	14	46.7	46.7	46.7
Yes, challenges were considered. Alternatives include using multiple platforms (Teams, Zoom), shared drives for documentation, and an emergency communication plan with backup methods like phone calls or in-person meetings.	1	3.3	3.3	50.0

Are_the_challenges_and_technical_issues_may_affect_the_communication_channels_considered?_If_yes_please_specify_the_alternatives.

	Frequency	Percent	Valid Percent	Cumulative Percent
Internet coverage	1	3.3	3.3	53.3
Language barrier	1	3.3	3.3	56.7
N/A	1	3.3	3.3	60.0
no	1	3.3	3.3	63.3
No	1	3.3	3.3	66.7
Responding to Clients requests don't usually follow the proper channels	1	3.3	3.3	70.0
The WhatsApp is one of the effective alternatives.	1	3.3	3.3	73.3
Workshops and direct communications.	1	3.3	3.3	76.7
Yes	3	10.0	10.0	86.7
YES	1	3.3	3.3	90.0
Yes, challenges and technical issues can definitely affect communication channels. Some common challenges and technical issues that may effect	1	3.3	3.3	93.3
Yes, the potential challenges and technical issues that may affect communication channels have been considered. As alternatives, we have identified backup communication methods such as email, instant messaging platforms (e.g., Microsoft Teams), and regular in-person or virtual meetings to ensure continuity. In case of technical failures, escalation procedures are also in place	1	3.3	3.3	96.7
Yes, verbal discussion, meetings	1	3.3	3.3	100.0
Total	30	100.0	100.0	

Frequencies

Statistics

Do_you_believe_that_the_interpersonal_skills_are_essential_for_effective_communication?

N	Valid	30
	Missing	0

Do_you_believe_that_the_interpersonal_skills_are_essential_for_effective_communication?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.3	3.3	3.3
	No	1	3.3	3.3	6.7
	Yes	28	93.3	93.3	100.0
	Total	30	100.0	100.0	

Statistics

Do_you_believe_that_a_lack_of_communication_or_ineffective_communication_can_lead_to_project_failure?

N	Valid	30
	Missing	0

Do_you_believe_that_a_lack_of_communication_or_ineffective_communication_can_lead_to_project_failure?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.3	3.3	3.3
	No	1	3.3	3.3	6.7
	Yes	28	93.3	93.3	100.0
	Total	30	100.0	100.0	

Statistics

Which_kind_of_communications_do_you_prefer?

N	Valid	30
	Missing	0

Which_kind_of_communications_do_you_prefer?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		3	10.0	10.0	10.0
	Formal communications	20	66.7	66.7	76.7
	Informal Communications	7	23.3	23.3	100.0
	Total	30	100.0	100.0	

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Appendixes

Survey About the Impact of Effective Communication on Project Success

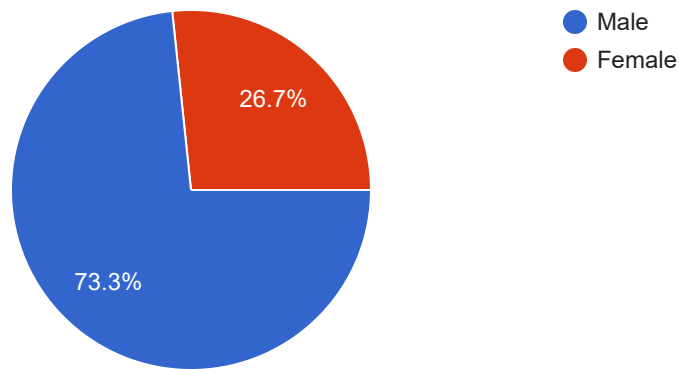
30 responses

[Publish analytics](#)

1- Gender

30 responses

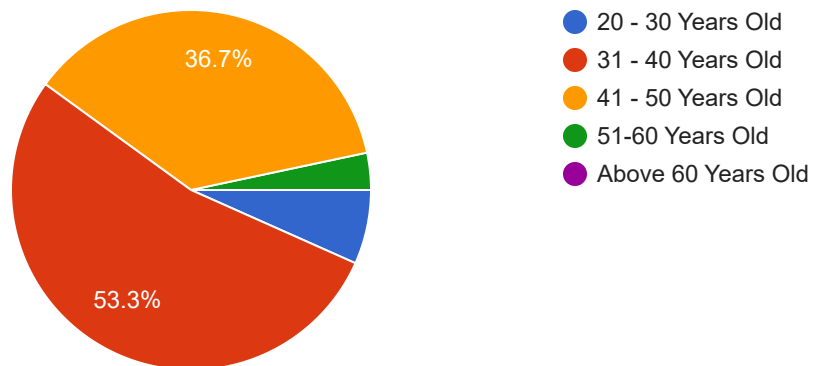
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2- Age

30 responses

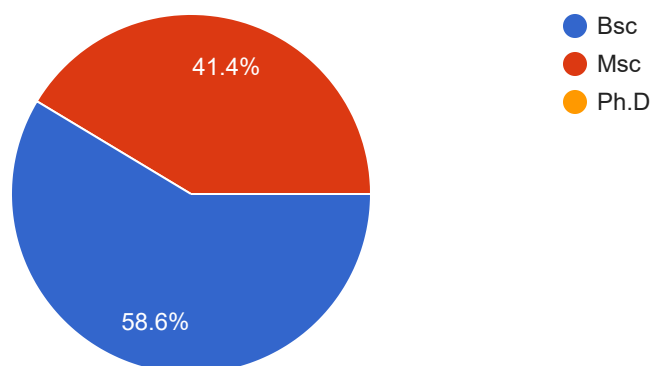
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3- Level of Education

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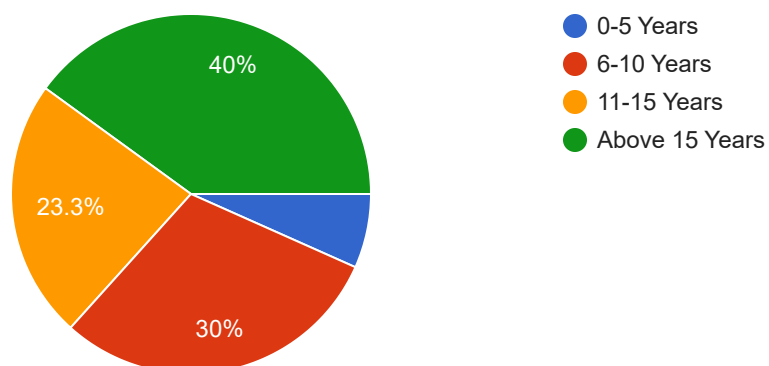
29 responses



4- Years of Experience

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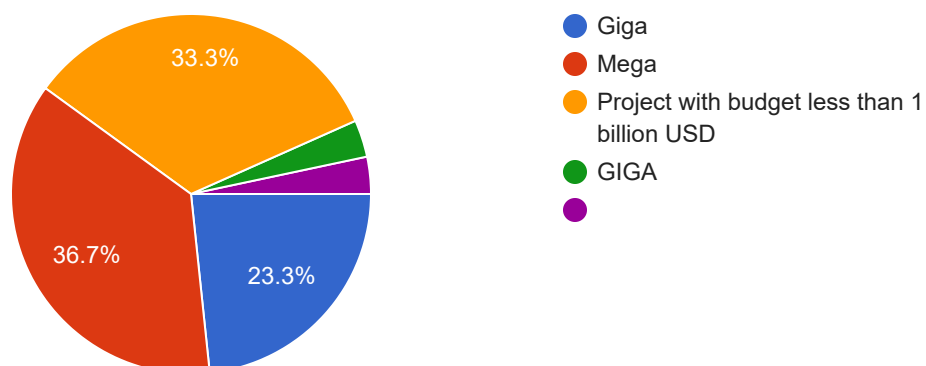
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5- Type of Project

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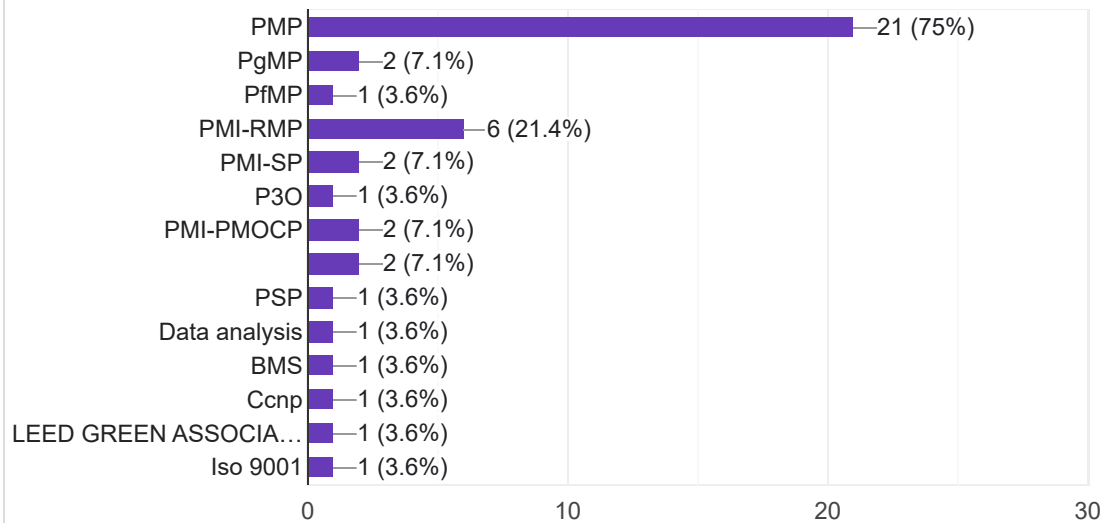
30 responses



6- Which kind of professional certificates do you have?

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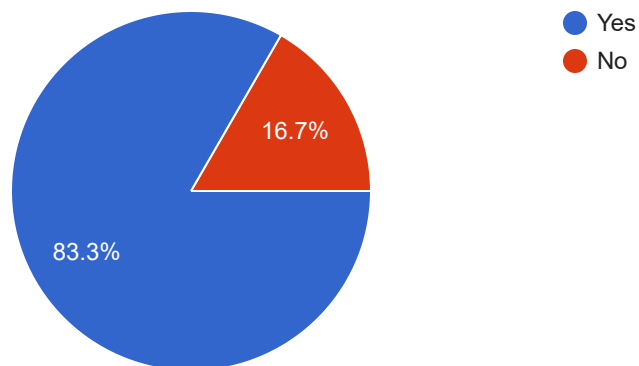
28 responses



7- Is the communication management plan in place before commencing the work?

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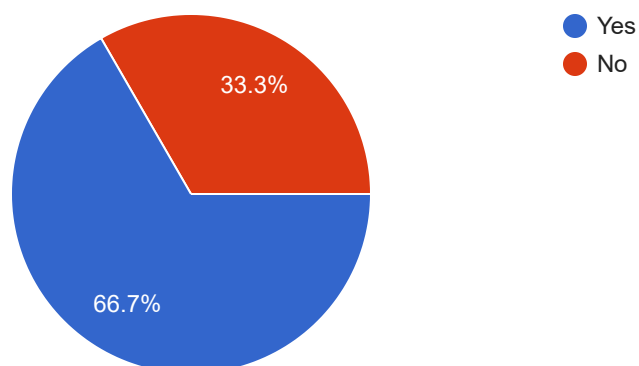
30 responses



8- Is the communication management plan revised as the project progresses?

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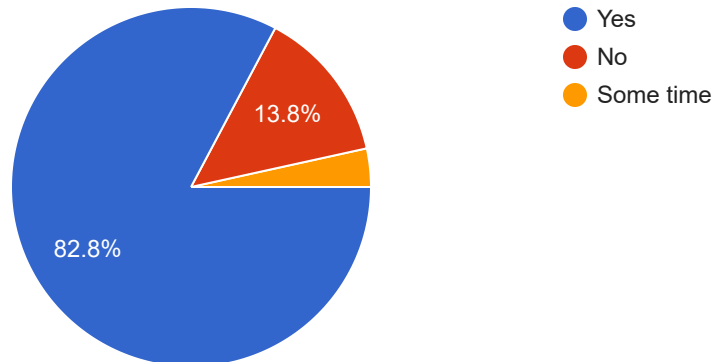
30 responses



9- Is the communication management plan considering the involvement of new stakeholders during the project life cycle?

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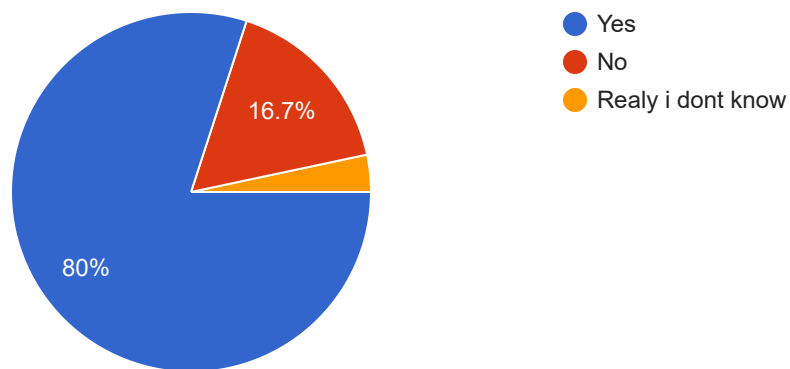
29 responses



10- Is there a RACI matrix already in place for your project?

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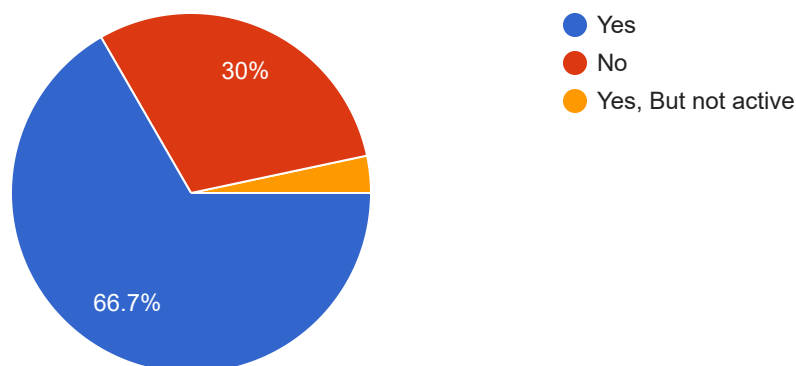
30 responses



11- Is the communication matrix already in place and active for your project?

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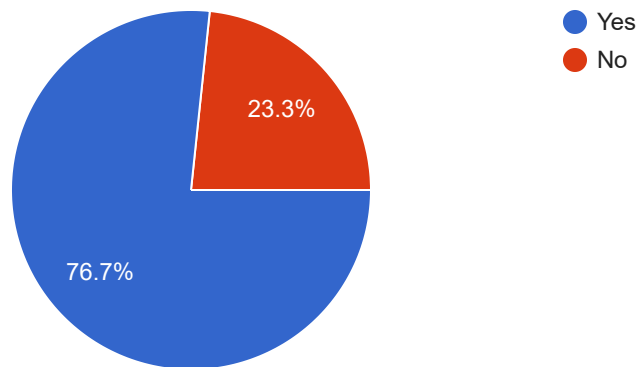
30 responses



12- Are the communication channels identified?

[Copy](#)

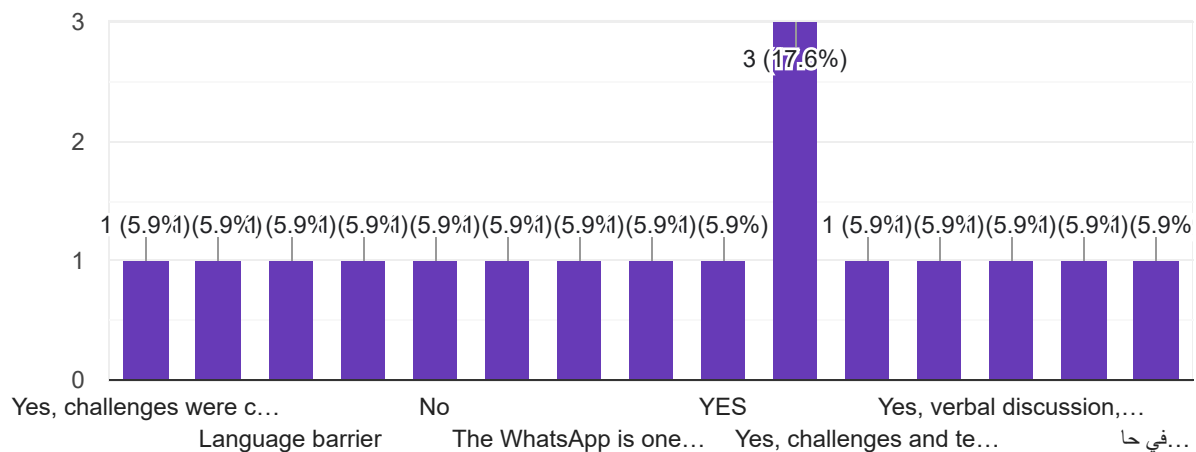
30 responses



13- Are the challenges and technical issues may affect the communication channels considered? if yes please specify the alternatives.

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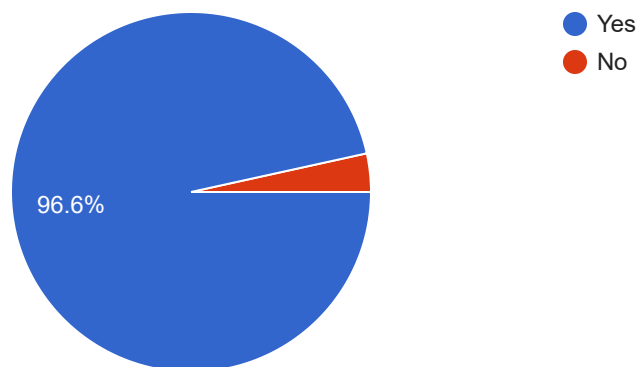
17 responses



14- Do you believe that the interpersonal skills are essential for effective communication?

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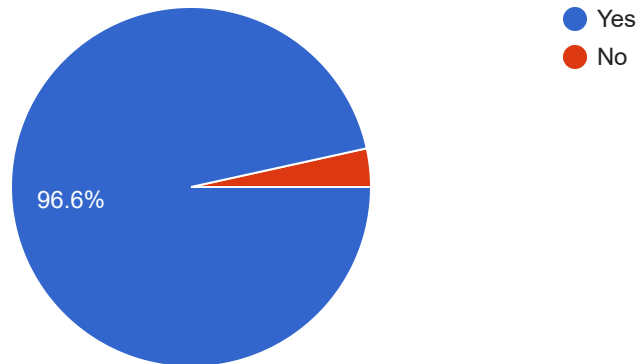
29 responses



15- Do you believe that a lack of communication or ineffective communication can lead to project failure?

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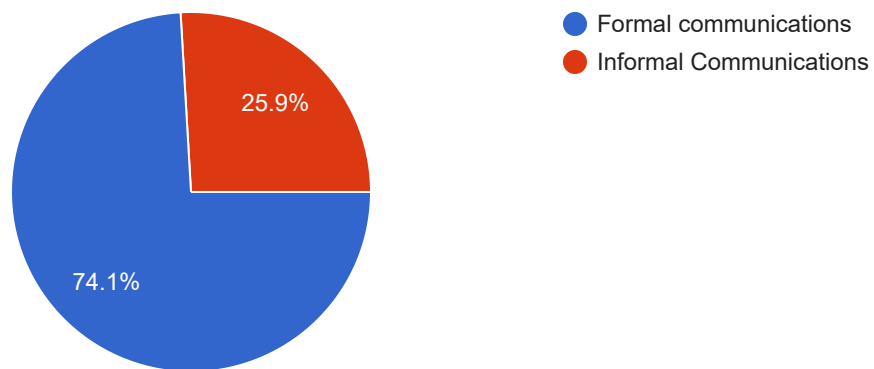
29 responses



16- Which kind of communications do you prefer ?

 Copy

27 responses



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البنية التحتية في المنطقة الغربية من المملكة العربية السعودية

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243001826

إشراف/
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د. فايز جرّاد

العام الدراسي:
2025