

°1.1 OVERVIEW AND PURPOSE OF THIS GUIDE

- Project management is not new. It has been in use for hundreds of years. Examples of project outcomes include:
 - Pyramids of Giza,
 - Olympic games,
 - Great Wall of China
- The outcomes of these projects were the result of leaders and managers applying project management practices, principles, processes, tools, and techniques to their work.
- By the mid-20th century, project managers began the work of seeking
 - recognition for project management as a profession.
 - PMI developed and published A Guide to the Project Management Body
 - of Knowledge (PMBOK® Guide).

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OVERVIEW AND PURPOSE OF THIS GUIDE This PMBOK® Guide identifies a subset of the project management body of knowledge that is generally recognized as good practice.

- Generally recognized means the knowledge and practices described are applicable to most projects most of the time, and there is consensus about their value and usefulness.
- Good practice means there is general agreement that the application of the knowledge, skills, tools, and techniques to project management processes can enhance the chance of success over many projects in delivering the expected business values and results.

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Determining the appropriate combination of processes, inputs,
tools, techniques, outputs and life cycle phases to manage a
project is referred to as "tailoring" the application of the knowledge described in this guide.

This PMBOK® Guide is different from a methodology.

- A methodology is a system of practices, techniques, procedures, and rules used by those who work in a discipline.
- This PMBOK® Guide is a foundation upon which organizations can build methodologies, policies, procedures, rules, tools and techniques, and life cycle phases needed to Prepared by bir Yasser Abarshafty an agementation

>> 1.1.1 THE STANDARD FOR PROJECT MANAGEMENT○

- The standard is a document established by an authority,
 custom, or general consent as a model or example
- The Standard for Project Management was developed using a process based on the concepts of consensus, openness, due process, and balance.
- The Standard for Project Management is a foundational reference for PMI's project management professional development programs and the practice of project management. Because project management needs to be tailored to fit the needs of the project, the standard and the guide are both based on descriptive practices, rather than prescriptive practices
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1.1.2 COMMON VOCABULARY

A common vocabulary is an essential element of a professional discipline. The PMI Lexicon of Project Management Terms [4] provides the foundational professional vocabulary that can be consistently used by organizations, portfolio, program, and project managers and other project stakeholders.



1.1.3 CODE OF ETHICS AND PROFESSIONAL CONDUCT

- PMI publishes the Code of Ethics and Professional Conduct [5] to instill confidence in the project management profession and to help an individual in making wise decisions, particularly when faced with difficult situations where the individual may be asked to compromise his or her integrity or values.
- The values that the global project management community defined as most important were responsibility, respect, fairness, and honesty. The Code of Ethics and Professional Conduct affirms these four values as its foundation.
- The Code of Ethics and Professional Conduct includes both aspirational standards and mandatory standards.
 - aspirational standards describe the conduct that practitioners, who are also PMI members, certification holders, or volunteers, strive to uphold
 - The mandatory standards establish firm requirements and, in some cases, limit or prohibit practitioner behavior

1.2.1 PROJECTS:

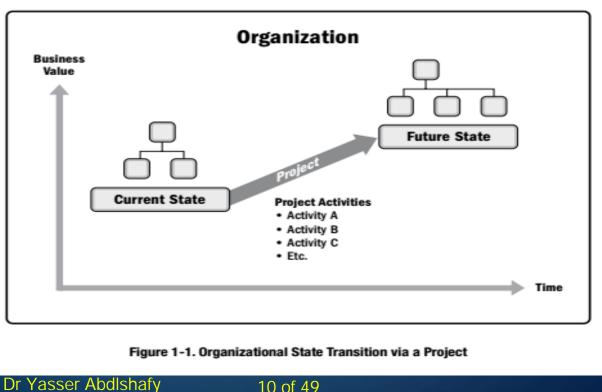
- A project is a temporary endeavor undertaken to create a unique product, service, or result
 - Unique product, service, or result: However, each building project remains unique in key characteristics (e.g., location, design, environment, situation, people involved)
 - Temporary endeavor. The temporary nature of projects indicates that a project has a definite beginning and end.
 Temporary does not necessarily mean a project has a short duration.

1.2.1 PROJECTS:

- The end of the project is reached when one or more of the following is true:
 - The project's objectives have been achieved;
 - The objectives will not or cannot be met;
 - Funding is exhausted or no longer available for allocation to the project;
 - The need for the project no longer exists
 - The human or physical resources are no longer available;
 - Or The project is terminated for legal cause or convenience.

Projects are temporary, but their deliverables may exist beyond
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- 1.2.1 PROJECTS:
- **PROJECTS DRIVE CHANGE.**
- Projects drive change in organizations. From a business perspective, a project is aimed at moving an organization from one state to another state in order to achieve a specific objective.



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• 1.2.1 PROJECTS:

PROJECTS ENABLE BUSINESS VALUE CREATION

PMI defines business value as the net <u>quantifiable</u> benefit derived from a business endeavor. The benefit may be tangials, intangible, or both

Examples of tangible elements include: Monetary assets, Stockholder equity,

Utility, Fixtures,

Tools, and Market share

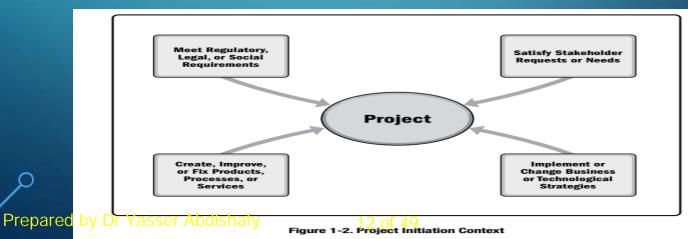
Examples of intangible elements include: Goodwill, Brand recognition, Public benefit, Trademarks, Strategic alignment, and Reputation

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• 1.2.1 PROJECTS:

PROJECT INITIATION CONTEXT

- Organizational leaders initiate projects in response to factors acting upon their organizations. There are four fundamental categories for these factors, which illustrate the context of a project.
 - Meet regulatory, legal, or social requirements;
 - Satisfy stakeholder requests or needs;
 - Implement or change business or technological strategies;
 - and Create, improve, or fix products, processes, or services.



• 1.2.1 PROJECTS:

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PROJECT INITIATION CONTEXT

Leaders respond to these factors in order to keep the organization viable ,These factors ultimately should link to the strategic objectives of the organization and the business value of each project.

Table F. T. Champles of Factors and Cada to the oreagon of a Freyeou						
Specific Factor	Examples of Specific Factors		Sattlerly Statioeholder Requests or Nee ds	Creats, Impove, or Fix Products, Processes, or Services	Implement or Change Business or Technologikal Stratogles	
New technology	An electronics firm authorizes a new project to develop a faster, cheaper, and smaller laptop based on advances in computer memory and electronics technology			x	x	
Competitive forces	Lower pricing on products by a competitor results in the need to lower production costs to remain competitive				x	
Material issues	A municipal bridge developed cracks in some support members resulting in a project to fix the problems			x		
Political changes	A newly elected official instigating project funding changes to a current project				х	
Market demand	A car company authorizes a project to build more fuel-efficient cars in response to gasoline shortages		x	x	x	
Economic changes	An economic downtum results in a change in the priorities for a current project				х	
Customer request	An electric utility authorizes a project to build a substation to serve a new industrial park		x	x		
Stakeholder demands	A stakeholder requires that a new output be produced by the organization		х			
Legal requirement	A chemical manufacturer authorizes a project to establish guidelines for the proper handling of a new toxic material					
Business process improvements	An organization implements a project resulting from a Lean Six Sigma value stream mapping exercise			x		
Strategic opportunity or business need	A training company authorizes a project to create a new course to increase its revenues			x	×	
Social need	A nongovernmental organization in a developing country authorizes a project to provide potable water systems, latrines, and sanitation education to communities suffering from high rates of infectious diseases		x			
ared by Dr Yasse	A plottic company authorizes a project to create a new service for electric car shares a reduce pollution			x	×	

Table 1-1. Examples of Factors that Lead to the Creation of a Project

> 1.2.2 THE IMPORTANCE OF PROJECT MANAGEMENT

Project management is the application of knowledge, skills, tools, and techniques to project activities to meet the project requirements, Project management enables organizations to execute projects effectively and efficiently.

Effective project management helps individuals, groups, and public and private organizations to: meet business objectives; Satisfy stakeholder expectations; Be more predictable; Increase chances of success; Deliver the right products at the right time; Resolve problems and issues; Respond to risks in a timely manner; Optimize the use of organizational resources; Identify, recover, or terminate failing projects; Manage constraints, Balance the influence of constraints on the project And Manage change in a better manner. Prepared by Dr Yasser Abdlshafy 14 of 49

Poorly managed projects or the absence of project management may result in: Missed deadlines, Cost overruns, Poor quality, Rework, Uncontrolled expansion of the project, Loss of reputation for the organization, Unsatisfied stakeholders, and Failure in achieving the objectives for which the project was undertaken.

1.2.2 THE IMPORTANCE OF PROJECT MANAGEMENT

- In today's business environment, organizational leaders need to be able to manage with tighter budgets, shorter timelines, scarcity of resources, and rapidly changing technology.
- The business environment is dynamic with an accelerating rate of change.



- **1.2.3.1 OVERVIEW**
- A project may be managed in three separate scenarios: as a standalone project (outside of a portfolio or program), within a program, or within a portfolio.
- A program is defined as a group of related projects, subsidiary programs, and program activities managed in a coordinated manner to obtain benefits not available from managing them individually. Programs are not large projects.
- A very large project may be referred to as a megaproject
 megaprojects cost US\$1billion or more, affect 1 million or more
 people, and run for years.
- A portfolio is defined as projects, programs, subsidiary portfolios, Prepared by Dr. Yasser Abdishafy ged as a 16 ob 49 to achieve strategic objective.

Organizational and portfolio planning impact the components by means of

prioritization based on risk, funding, and other considerations

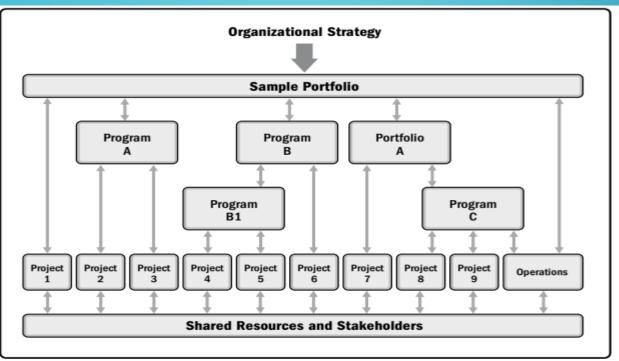


Figure 1-3. Portfolio, Programs, Projects, and Operations

- Program and project management focus on doing programs and projects the "right" way;
- And Portfolio management focuses on doing the "right" programs and projects

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Organizational Project Management						
	Projects	Programs	Portfolios			
Definition	A project is a temporary endeavor undertaken to create a unique product, service, or result.	A program is a group of related projects, subsidiary programs, and program activities that are managed in a coordinated manner to obtain benefits not available from managing them individually.	A portfolio is a collection of projects, programs, subsidiary portfolios, and operations managed as a group to achieve strategic objectives.			
Scope	Projects have defined objectives. Scope is progressively elaborated throughout the project life cycle.	Programs have a scope that encompasses the scopes of its program components. Programs produce benefits to an organization by ensuring that the outputs and outcomes of program components are delivered in a coordinated and complementary manner.	Portfolios have an organizational scope that changes with the strategic objectives of the organization.			
Change	Project managers expect change and implement processes to keep change managed and controlled.	Programs are managed in a manner that accepts and adapts to change as necessary to optimize the delivery of benefits as the program's components deliver outcomes and/or outputs.	Portfolio managers continuously monitor changes in the broader internal and external environments.			
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ProjectsProgramsPortfoliosPlanningProject managers progressively elaborate high-level information into detailed plans throughout the project life cycle.Programs are managed using high-level plans that track the interdependencies and progress of program components. Program plans are also used to guide planning at the component level.Portfolio managers create and maintain necessary processes and communication relative to the aggregate portfolio.ManagementProject managers manage the project team to meet the project objectives.Programs are managed by program managers who ensure that program benefits are delivered as expected, by coordinating the activities of a program's components.Portfolio managers may manage or coordinate portfolio managers may manage or coordinate portfolio managers may program's components.MonitoringProject managers monitor and control the work of producing the products, services, or results that the project was undertaken to produce.Program saccess is measured by program's success is measured by the program's ability to deliver its intende benefits of the program will be met.Portfolio managers monitor strategic changes and aggregate resource allocation, performance results, and risk of the portfolio.SuccessSuccess is measured by product and project quality, timeliness, budget compliance, and degree of customer satisfaction.A program's success is measured by the program's efficiency and efficiences in delivering thoseSuccess is measured in terms of the aggregate investment performance and by the program's efficiency and efficiences in delivering those	Organizational Project Management						
Image: Project managers monitor and control the work of producting the project was undertaken to produce.high-level plans that track the interdependencies and progress of program components. Program plans are also used to guide planning at the component level.maintain necessary processes and communication relative to the aggregate portfolio.ManagementProject managers manage the project team to meet the project objectives.Programs are managed by program managers who ensure that program benefits are delivered as expected, by coordinating the activities of a program's components.Portfolio managers may manage or coordinate portfolio.MonitoringProject managers monitor and control the work of producing the project was undertaken to produce.Program sagers monitor the program scomponents to ensure the overall goals, schedules, budget, and benefits of the program will be met.Portfolio managers monitor strategic changes and aggregate resource allocation, performance results, and risk of the portfolio.SuccessSuccess is measured by product and project quality, timeliness, budget compliance, and degree of customer satisfaction.A program's success is measured by regram's ability to deliver its intende benefits to an organization, and by the program's efficiency and effectiveness in delivering thoseSuccess is measured in terms of the aggregate investment performance and by the program's efficiency and effectiveness in delivering thoseSuccess is measured in terms of the portfolio.		Projects	Programs	Portfolios			
team to meet the project objectives.managers who ensure that program benefits are delivered as expected, by coordinating the activities of a program's components.coordinate portfolio management staff, or program and project staff that may have reporting responsibilities into the aggregate portfolio.MonitoringProject managers monitor and control the work of producing the products, services, or results that the project was undertaken to produce.Program managers monitor the progress of program components to ensure the overall goals, schedules, budget, and benefits of the program will be met.Portfolio managers monitor strategic changes and aggregate resource allocation, performance results, and risk of the portfolio.SuccessSuccess is measured by product and project quality, timeliness, budget compliance, and degree of customer satisfaction.A program's success is measured by the program's efficiency and efficiency and efficincy and efficiency and effic	Planning	elaborate high-level information into detailed plans throughout the project	high-level plans that track the interdependencies and progress of program components. Program plans are also used to guide planning at the	maintain necessary processes and communication relative to the			
the work of producing the products, services, or results that the project was undertaken to produce.progress of program components to ensure the overall goals, schedules, budget, and benefits of the program will be met.changes and aggregate resource allocation, performance results, and risk of the portfolio.SuccessSuccess is measured by product and project quality, timeliness, budget compliance, and degree of customer satisfaction.A program's success is measured by the program's efficiency and effectiveness in delivering thoseSuccess is measured in terms of the aggregate investment performance and benefit realization of the portfolio.	Management	, , , ,	managers who ensure that program benefits are delivered as expected, by coordinating the activities of a	coordinate portfolio management staff, or program and project staff that may have reporting responsibilities			
project quality, timeliness, budget compliance, and degree of customer satisfaction.	Monitoring	the work of producing the products, services, or results that the project	progress of program components to ensure the overall goals, schedules, budget, and benefits of the program	changes and aggregate resource allocation, performance results, and			
benefits.	Success	project quality, timeliness, budget compliance, and degree of customer	the program's ability to deliver its intended benefits to an organization, and by the program's efficiency and	aggregate investment performance			

1.2.3.2 PROGRAM MANAGEMENT

- Program management is defined as the application of knowledge, skills, and principles to a program to achieve the program objectives and to obtain benefits and control not available by managing program components individually.
- A program component refers to projects and other programs within a program.
 - An example of a program is a new communications satellite system with projects for the design and construction of the satellite and the ground stations, the launch of the satellite, and the integration of the system.

1.2.3.3 PORTFOLIO MANAGEMENT

- A portfolio is defined as projects, programs, subsidiary portfolios, and operations managed as a group to achieve strategic objectives.
- Portfolio management is defined as the centralized management of one or more portfolios to achieve strategic objectives.
- Portfolio management also confirms that the portfolio is consistent with and aligned with organizational strategies.
- For example, an infrastructure organization that has the strategic objective of maximizing the return on its investments may put together a portfolio that includes a mix of projects in oil and gas, power, water, roads, rail, and airports.

O Operations management is concerned with the ongoing production of goods and/or services.

1.2.3.4 OPERATIONS MANAGEMENT

- It ensures that **business** operations continue efficiently by using the optimal resources needed to meet customer demands.
- It is concerned with managing processes that transform inputs (e.g., materials, components, energy, and labor) into outputs (e.g., products, goods, and/or services)

1.2.3.5 OPERATIONS AND PROJECT MANAGEMENT

- Changes in business or organizational operations may be the focus of a project.
- Projects can intersect with operations at various points during the product life cycle, such as; When developing a new product, upgrading a product, or expanding outputs; While improving operations or the product development Prepared by DAY asser Abdishary he product life cycle; and At each closeout phase.

1.2.3.6 ORGANIZATIONAL PROJECT MANAGEMENT (OPM) AND STRATEGIES

Portfolios, **programs**, and **projects** are aligned with or driven by **organizational strategies** and differ in the way each contributes to the achievement of strategic goals:

C

- Portfolio management aligns portfolios with organizational strategies by selecting the right programs or projects, prioritizing the work, and providing the needed resources.
- Program management harmonizes its program components and controls interdependencies in order to realize specified benefits.
- Project management enables the achievement of organizational goals and objectives.

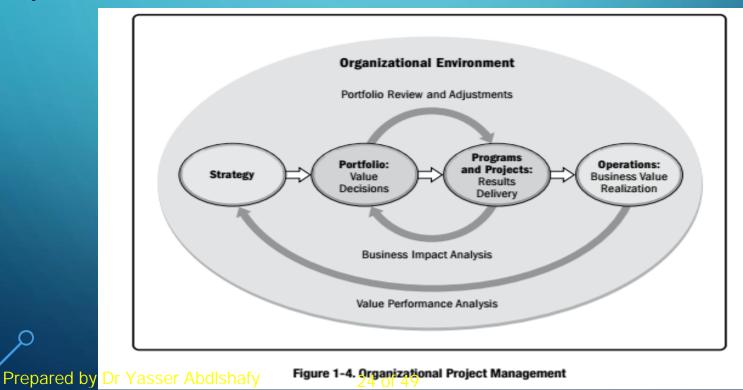
OPM is defined as a framework in which portfolio, program, and project management are integrated with organizational enablers in order to achieve strategic objectives. Prepared by Dr Yasser AbdIshafy 23 of 49

1.2.3.6 ORGANIZATIONAL PROJECT MANAGEMENT (OPM) AND STRATEGIES

The purpose of OPM is to ensure that the organization undertakes the

right projects and allocates critical resources appropriately.

OPM also helps to ensure that all levels in the organization understand the strategic vision, the initiatives that support the vision, the objectives, and the deliverables.



1.2.4 COMPONENTS OF THE GUIDE

The key components are described briefly in Table 1-3. These components are more fully explained in the sections that follow the table.

PMBOK^{*} Guide Key Component **Brief Description** Project life cycle (Section 1.2.4.1) The series of phases that a project passes through from its start to its completion. A collection of logically related project activities that culminates in the completion of Project phase (Section 1.2.4.2) one or more deliverables. Phase gate (Section 1.2.4.3) A review at the end of a phase in which a decision is made to continue to the next phase, to continue with modification, or to end a program or project. **Project management processes** A systematic series of activities directed toward causing an end result where one or (Section 1.2.4.4) more inputs will be acted upon to create one or more outputs. Project Management Process Group A logical grouping of project management inputs, tools and techniques, and outputs. (Section 1.2.4.5) The Project Management Process Groups include Initiating, Planning, Executing, Monitoring and Controlling, and Closing. Project Management Process Groups are not project phases. An identified area of project management defined by its knowledge requirements and **Project Management Knowledge Area** described in terms of its component processes, practices, inputs, outputs, tools, and (Section 1.2.4.6) techniques.

Table 1-3. Description of PMBOK® Guide Key Components

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1.2.4 COMPONENTS OF THE GUIDE

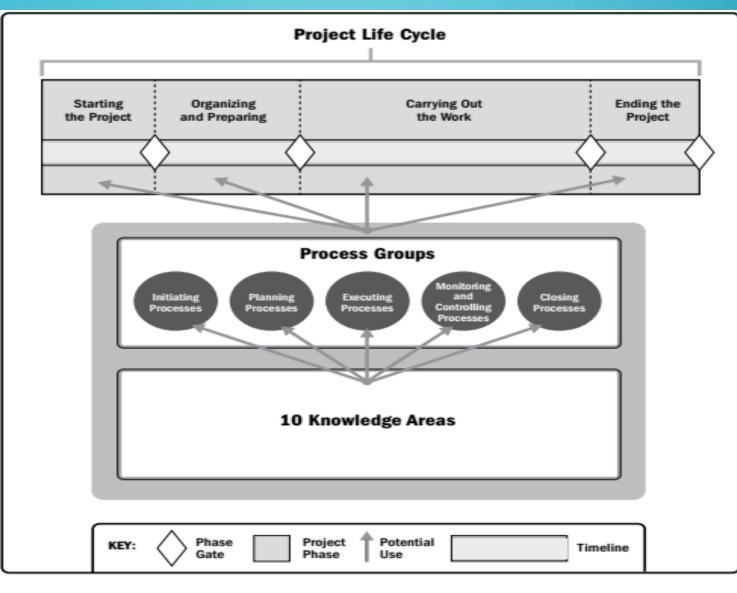


Figure 1-5. Interrelationship of PMBOK® Guide Key Components in Projects

1.2.4.1 PROJECT AND DEVELOPMENT LIFE CYCLES

A project life cycle is the series of phases that a project passes through from its start to its completion. The phases may be sequential, iterative, or overlapping. All projects can be mapped to the generic life cycle shown in Figure 1-5.

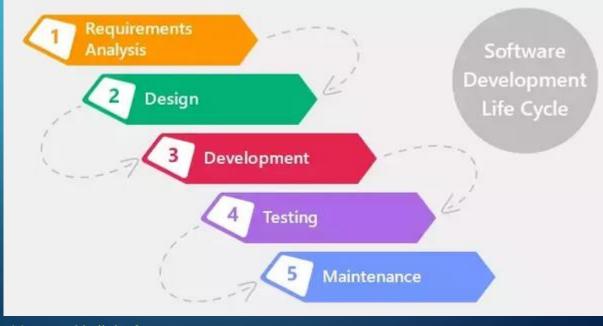
- Development life cycles can be predictive, iterative, incremental, adaptive, or a hybrid model:
 - In a predictive life cycle, the project scope, time, and cost are determined in the early phases of the life cycle. Any changes to the scope are carefully managed. Predictive life cycles may also be referred to as waterfall life cycles.
 - In an iterative life cycle, the project scope is generally determined early in the project life cycle, but time and cost estimates are routinely modified as the project team's understanding of the product increases.
 Iterations develop the product through a series of repeated cycles, Prepared by Dr Yasser Abdlshafy 27 of 49

1.2.4.1 PROJECT AND DEVELOPMENT LIFE CYCLES

- In an iterative life cycle : Iterations develop the product through a series of repeated cycles, while increments successively add to the functionality of the product. In an incremental life cycle, the deliverable is produced through a series of iterations that successively add functionality within a predetermined time frame. Adaptive life cycles are agile, iterative, or incremental. The detailed
- scope is defined and approved before the start of an iteration. Adaptive life cycles are also referred to as agile or change-driven life cycles.
- A hybrid life cycle is a combination of a predictive and an adaptive life cycle. Those elements of the project that are well known or have fixed requirements follow a predictive development
 Ife cycle, and those elements that are still evolving follow an Prepared by Dr Yasser Abdishafy on title c28 of 49

1.2.4.1 PROJECT AND DEVELOPMENT LIFE CYCLES

- It is up to the project management team to determine the best life cycle for each project. The project life cycle needs to be flexible enough to deal with the variety of factors included in the project.
- A product life cycle is the series of phases that represent the evolution of a product, from concept through delivery, growth, maturity, and to retirement.



1.2.4.2 PROJECT PHASE

A project phase is a collection of logically related project activities that culminates in the completion of **one** or **more deliverables**. The phases in a life cycle can be described by a variety of attributes.

Attributes may include but are not limited to: Name Number Duration Resource requirements Entrance criteria for a project to move into that phase, and Exit criteria for a project to complete a phase Examples of phase names include but are not limited to: Concept development, Feasibility study, Customer requirements, Solution development, Design, Prototype, Build, Test

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1.2.4.3 PHASE GATE

A phase gate, is held at the end of a phase. The project's performance and progress are compared to project and business documents including but not limited to:

Project business case & Project charter & Project management plan&
 And Benefits management plan.

A decision (e.g., go/no-go decision) is made as a result of this comparison to:

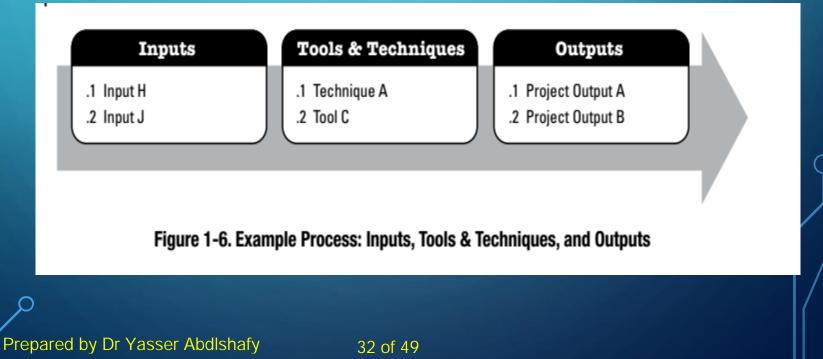
Continue to the next phase, Continue to the next phase with modification, End the project, Remain in the phase, or Repeat the phase or elements of it.

phase gates may be referred to by other terms such as phase review, stage gate, kill point, and phase entrance or phase exit

1.2.4.4 PROJECT MANAGEMENT PROCESSES

The project life cycle is managed by **executing** a **series** of project **management activities** known as project **management processes**.

Every project management process produces one or more outputs from one or more inputs by using appropriate project management tools and techniques. The output can be a deliverable or an outcome. Outcomes are an end result of a process.



1.2.4.4 PROJECT MANAGEMENT PROCESSES

Processes generally fall into one of three categories:

- Processes used once or at predefined points in the project. The processes Develop Project Charter and Close Project or Phase are examples.
- Processes that are performed periodically as needed. The process
 Acquire Resources is performed as resources are needed. The process
 Conduct Procurements is performed prior to needing the procured item.
- Processes that are performed continuously throughout the project. The process Poine Activities may occur throughout the project life or cycle, especially if the project uses rolling wave planning or an adaptive development approach. Many of the monitoring and control
 Processes are ongoing from the start of the project, until it is closed out.
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1.2.4.5 PROJECT MANAGEMENT PROCESS GROUPS

- A Project Management Process Group is a logical grouping of project
 management processes to achieve specific project objectives.
 - Initiating Process Group. Those processes performed to define a new project or a new phase of an existing project by obtaining authorization to start the project or phase.
 - Planning Process Group. Those processes required to establish the scope of the project, refine the objectives, and define the course of action required to attain the objectives that the project was undertaken to achieve.
 - Executing Process Group. Those processes performed to complete the work defined in the project management plan to satisfy the project requirements.

1.2.4.5 PROJECT MANAGEMENT PROCESS GROUPS

- Monitoring and Controlling Process Group. Those processes required to track, review, and regulate the progress and performance of the project; identify any areas in which changes to the plan are required; and initiate the corresponding changes.
- Closing Process Group. Those processes performed to formally complete or close the project, phase, or contract.

1.2.4.6 PROJECT MANAGEMENT KNOWLEDGE AREAS

In addition to Process Groups, processes are also categorized by Knowledge Areas. A Knowledge Area is an identified area of project management defined by its knowledge requirements and described in terms of its component processes, Prepared by Dr Yasser Abdlshafy 35 of 49

1.2.4.6 PROJECT MANAGEMENT KNOWLEDGE AREAS

- **Project Integration Management**
- Project Scope Management
- Project Schedule Management
- Project Cost Management
- Project Quality Management
- Project Resources Management
- Project Communications Management
- Project Risk Management
- Project Procurement Management
 - Project Stakeholder Management

1.2.4.7 PROJECT MANAGEMENT DATA AND INFORMATION

- Project data are regularly collected and analyzed throughout the project
 life cycle. The following definitions identify key terminology regarding
 project data and information:
 - Work performance data. The raw observations and measurements identified during activities performed to carry out the project work.
 - Work performance information. The performance data collected from various controlling processes, analyzed in context and integrated based on relationships across areas.
 - Work performance reports. The physical or electronic representation of work performance information compiled in project documents, which is intended to generate decisions or raise issues, actions, or awareness.

1.2.5 TAILORING

- Usually project managers apply a project management methodology to their work. A methodology is a system of practices, techniques, procedures, and rules used by those who work in a discipline. This definition makes it clear that this guide itself is not a methodology.
- The appropriate project management processes, inputs, tools, techniques, outputs, and life cycle phases should be selected to manage a project, This selection activity is known as tailoring project management to the project
- Tailoring is necessary because each project is unique; not every process, tool, technique, input, or output identified
- The importance of each constraint is different for each project, and the
 project manager tailors the approach for managing these constraints based on the
 project environment, organizational culture, stakeholder needs, and other variables



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The project manager needs to ensure that the project management approach captures the intent of business documents. These documents are defined in Table. These two documents are interdependent and iteratively developed and maintained throughout the life cycle of the project.

Table 1-5. Project Business Documents

Project Business Documents	Definition
Project business case	A documented economic feasibility study used to establish the validity of the benefits of a selected component lacking sufficient definition and that is used as a basis for the authorization of further project management activities.
Project benefits management plan	The documented explanation defining the processes for creating, maximizing, and sustaining the benefits provided by a project.

Figure illustrates the interrelationship of these critical project management business documents and the needs assessment. Figure shows an approximation of the life cycle of these various documents against the project life cycle.

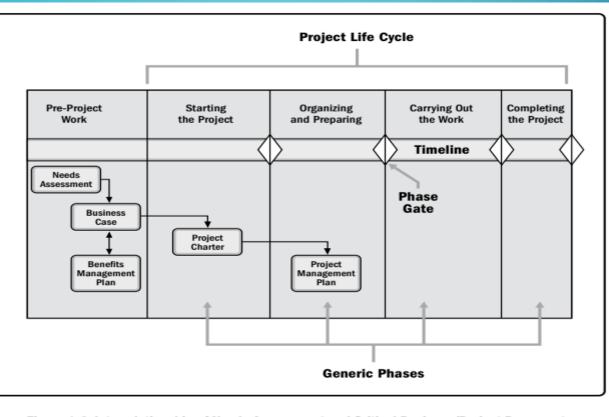


Figure 1-8. Interrelationship of Needs Assessment and Critical Business/Project Documents

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1.2.6.1 PROJECT BUSINESS CASE:

- The project business case is a documented economic feasibility study used to establish the validity of the benefits of a selected component lacking sufficient definition and that is used as a basis for the authorization of further project management activities
- The business case lists the objectives and reasons for project initiation. It helps measure the project success at the end of the project against the project objectives.
- The business case may be used before the project initiation and may result
 in a ge/no-ge decision for the project.
- A needs assessment often precedes the business case. The needs assessment involves understanding business goals and objectives, issues, and opportunities and recommending proposals to address them. The results of Prepared by Dr Yasser AbdIshafy be sumfill filled in the business case document.

1.2.6.1 PROJECT BUSINESS CASE:

A business case may include but is not limited to documenting the following :

BUSINESS NEEDS:

- Determination of what is prompting the need for action;
- Situational statement documenting the business problem or opportunity to be addressed including the value to be delivered to the organization;
- Identification of stakeholders affected; and
- Identification of the scope.

1.2.6.1 PROJECT BUSINESS CASE:

- ANALYSIS OF THE SITUATION:
 - Identification of organizational strategies, goals, and objectives;
 - Identification of root cause(s) of the problem or main contributors of an opportunity;
 - Gap analysis of capabilities needed for the project versus existing capabilities of the organization;
 - Identification of known risks;
 - Identification of critical success factors;
 - Identification of decision criteria by which the various courses of action may be assessed;

- **1.2.6.2 PROJECT BENEFITS MANAGEMENT PLAN**
- The project benefits management plan is the **document** that describes how and when the **benefits** of the project will be delivered, and describes the mechanisms that should be in place to measure those benefits. The benefits management plan describes key elements of the benefits and may include but is not limited to documenting the following:
 - Target benefits (e.g., the expected tangible and intangible value to be gained by the implementation of the project; financial value is expressed as net present value);
 - Strategic alignment (e.g. how well the project benefits align to the business strategies of the organization
 - Timeframe for realizing benefits (e.g., benefits by phase, short-term
 - long-term, and ongoing);Prepared by Dr Yasser Abdlshafy44 of 49

- **1.2.6.2 PROJECT BENEFITS MANAGEMENT PLAN**
- **Benefits owner** (e.g., the accountable person to monitor, record, and report realized benefits throughout the timeframe established in the plan);
- Metrics (e.g., the measures to be used to show benefits realized, direct measures, and indirect measures);
- Assumptions (e.g., factors expected to be in place or to be in evidence); and
- **Risks** (e.g., risks for realization of benefits)
- 1.2.6.3 PROJECT CHARTER AND PROJECT MANAGEMENT PLAN

The project charter is defined as a document issued by the project sponsor O that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities. Prepared by Dr Yasser Abdlshafy

- One of the most common challenges in project management is determining whether or not a project is successful.
- Traditionally, the project management metrics of time, cost, scope, and quality have been the most important factors in defining the success of a project. More recently, practitioners and scholars have determined that project success should also be measured with consideration toward achievement of the project objectives.
- Project success may include additional criteria linked to the organizational
 strategy and to the delivery of business results.





- These project objectives may include but are not limited to:
- Completing the project benefits management plan;
- Meeting the agreed-upon financial measures documented in the business case. These financial measures may include but are not limited to:
 - Net present value (NPV), Return on investment (ROI), Internal rate of return (IRR), Payback period (PBP), and Benefit-cost ratio (BCR)
 - Meeting business case nonfinancial objectives;
 - Completing movement of an organization from its current state to the desired future state;
 - Fulfilling contract terms and conditions;

Prepared by Dr Yasser Abdlshafy

1.2.6 PROJECT MANAGEMENT BUSINESS DOCUMENTS 1.2.6.4 PROJECT SUCCESS MEASURES

- When the business alignment for a project is constant, the chance for project success greatly increases because the project remains aligned with the strategic direction of the organization.
- It is possible for a project to be successful from a scope/schedule/budget viewpoint, and to be unsuccessful from a business viewpoint. This can occur when there is a change in the business needs or the market environment before the project is completed



