





# Project Management Body of Knowledge (PMBOK 7th Ed.)

Fereydoun Fardad

(MSc, PE, PMP, RMP, PBA, ACP, PRINCE2, IPMA-C, PSM, SFC, SFPC, SMPC, CASF, EBCL \*A, ICPA, OCB A)

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爆 کارشناس عمران و کارشناس ارشد مهندسی و مدیریت پروژه و ساخت از دانشگاه صنعتی امیرکبیر

💐 عضو موسسه PMI، انجمن مدیریت پروژه ایران و سازمان نظام مهندسی ساختمان استان تهران

💐 عضو تیم بازنگری استاندارد PMBOK6,7 و استانداردهای مدیریت ریسک، زمانبندی و تخمین

💐 عضو کمیتههای گواهینامه مشاوران و جایزه ملی مدیریت پروژه ایران (انجمن مدیریت پروژه ایران)

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💐 دارای مدرک مدیریت پروژه PRINCE2 از OGC انگلستان

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💐 دارای مدارک مدیریت پروژه چابک SFPC,SMPC از موسسه CertiProf آمریکا

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💐 ارزیاب و سرارزیاب جایزه تعالی مدیریت پروژه ایران (PEM) و جایزه ملی بهرهوری و تعالی سازمانی (EFQM)

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🥦 عضو تیم مولفین اولین کتاب مدل تعالی پروژه (PEM) در ایران

🛂 سابقه تدریس بیش از ۴۵۰ دوره آموزشی در سازمانها و صنایع مختلف

🥦 ارایه مقالات و سخنرانیهای متعدد علمی در کنفرانسهای ملی و بینالمللی





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**FardadPM** 





فرقی نمی کند ۲۰ ساله هستید یا ۸۰ ساله . هر کس آموختن را متوقف کند پیر می شود و هر کس پیوسته بیاموزد، جوان خواهد ماند . مهمترین چیز در زندگی، داشتن ذهنی جوان است داشتن ذهنی جوان است



هنری فورد

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لزا با توجه به اینکه برای تهیه جزوه فوق زمان، هزینه و انرژی بسیار زیاری مرف مرف شره تا از هر نظر ممتاز باشر، از شما تقافنا دار م اصول کپی رایت را رعایت کرده و در صورت نیاز، سفارش فریر آن را به تهیه کننده برهیر.
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# My Symbols



**More Info** 



Movie



**Real Sample** 



**Memorizing** 

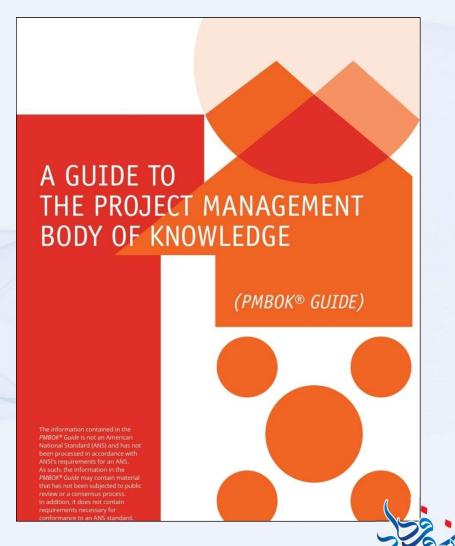


**More Practice** 



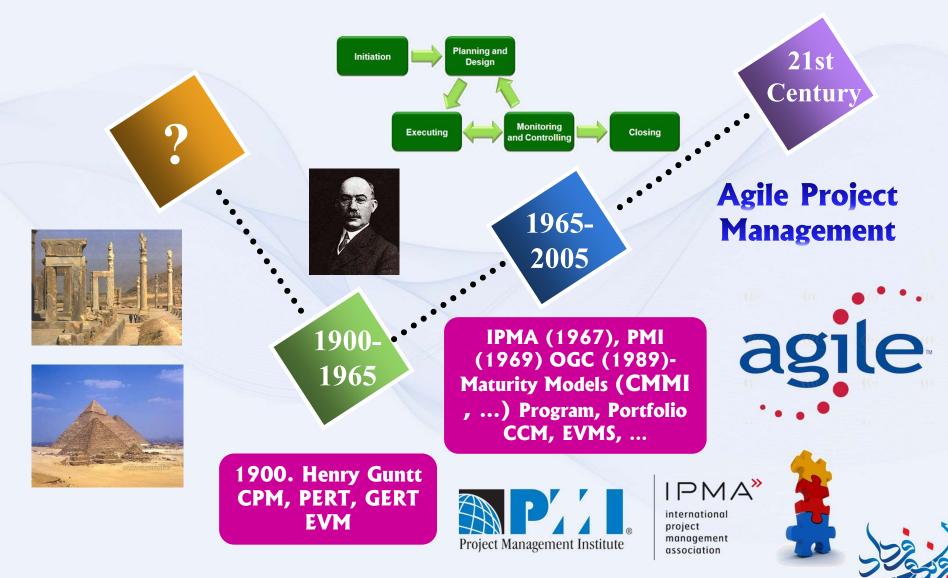
## PMBOK 7<sup>Th</sup>





# History of Project Management

(i)



## Alternatives to PMI



PM Organization	Head Office	Famous PM Standard	# of Members
PMI Project Management Institute	USA	PMBOK	240,000
IPMA IPMA   international project management association	Europe	ICB	30,000
AXELOS (AXELOS GLOBAL BEST PRACTICE	uK	PRINCE II	15,000
AIPM Australian Institute of Project Management	Australia	-	7,100

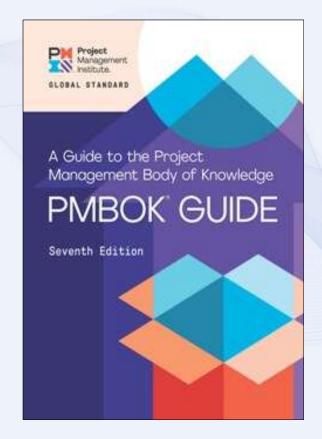
**Numbers from Craig Brown (sep. 2007)** 

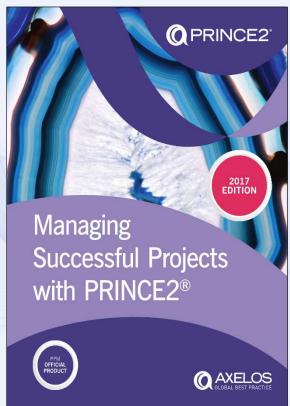
- ICB: IPMA (Individual) Competency Baseline
- PRINCE2: Project In Controlled Environment

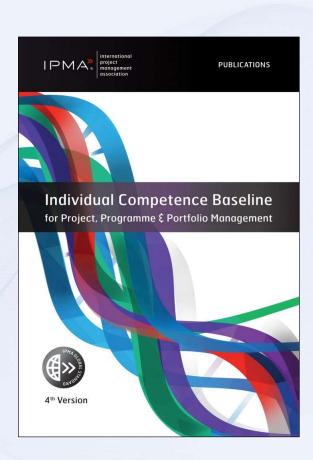


#### Famous PM Standards









- ICB: IPMA (Individual) Competency Baseline
- PRINCE2: Project In Controlled Environment



#### Introduction to PMI

- i
- A professional institute specializing in project management.
- M PMI Offices is in Newtown Square, Pennsylvania in the USA.
- Founded in 1969 by working project managers.
- **Website:** www.pmi.org
- Activities:
  - Project Management Standards;
  - Project Management Books
  - A Monthly Magazine (PM Network)
  - A Monthly Newsletter (PMI Today)
  - A Quarterly Journal (Project Management Journal)
  - Supervision on Training (PMI Registered Education Providers (REP))
  - Professional Certification

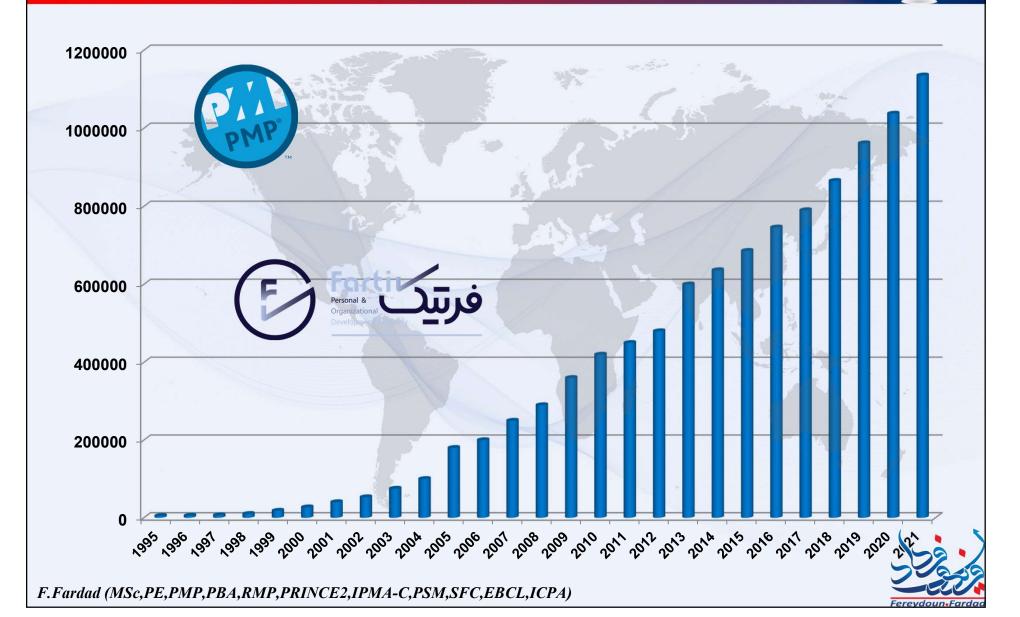


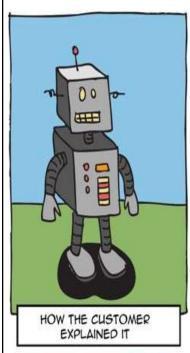


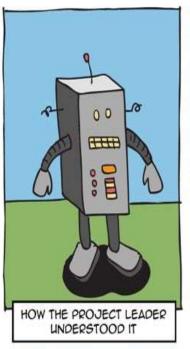
# History of PMBOK®

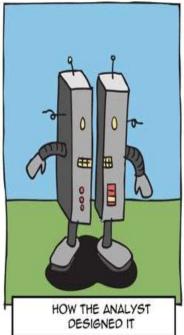


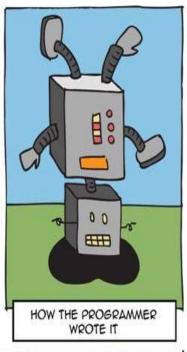


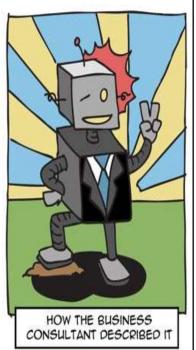


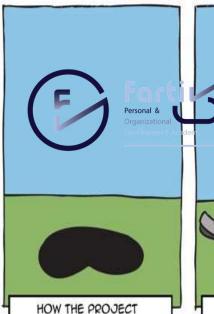




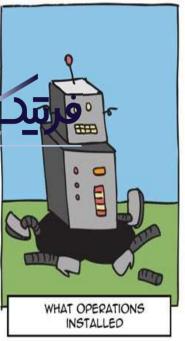


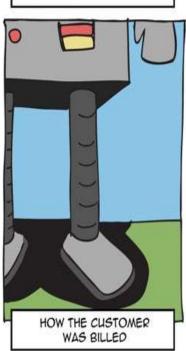


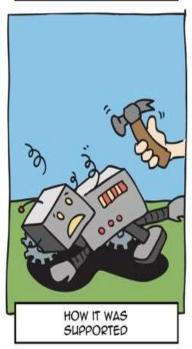




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#### The Standard For PM

The Standard for Project Management identifies Project Management Principles that guide the **Behaviors and Actions** of project professionals and other stakeholders who work on or are engaged with projects.



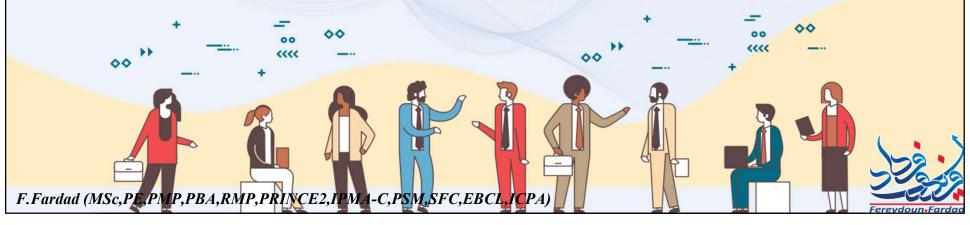
## Purpose of The Standard For PM

- The Standard for Project Management provides a basis for understanding project management and how it enables intended outcomes.
- This standard applies regardless of industry, location, size, or delivery approach, for example, predictive, hybrid, or adaptive.
- It describes the system within which projects operate, including governance, possible functions, the project environment, and considerations for the relationship between project management and product management.



#### Audience For This Standard

- Are responsible or accountable for delivering project outcomes;
- Work on projects full or part time;
- Work in portfolio, program, or project management offices (PMOs);
- Are involved in project sponsorship, product ownership, product management, executive leadership, or project governance;
- Are involved with portfolio or program management;
- Provide resources for project work;
- Focus on value delivery for portfolios, programs, and projects;
- Teach or study project management; and
- Are involved in any aspect of the project value delivery chain.

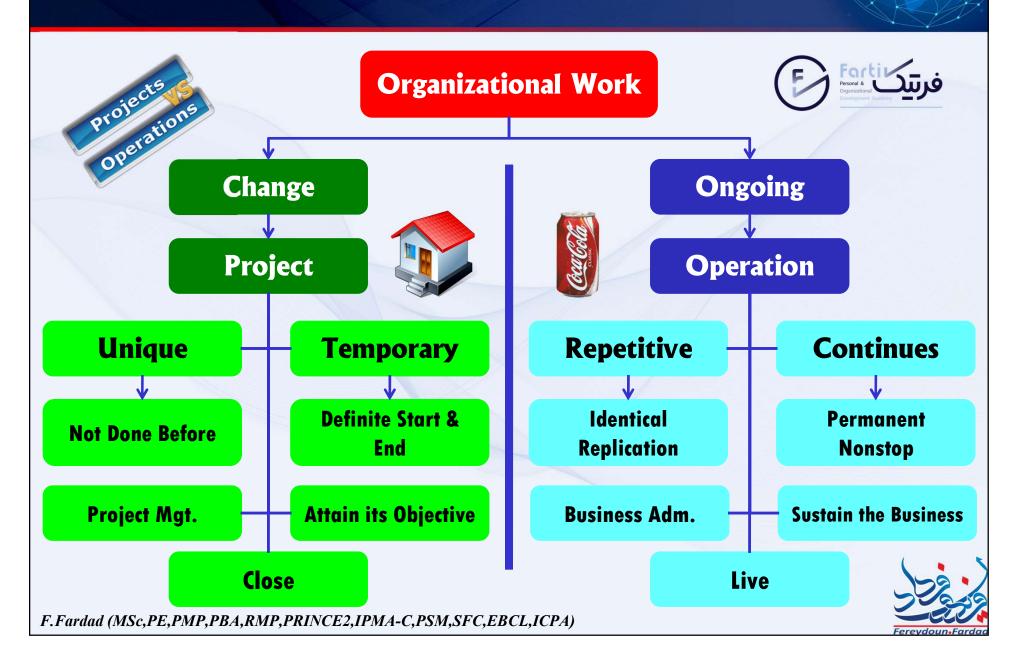


#### Key Terms and Concepts

- The Standard for Project Management reflects the progression of the profession.
- Organizations expect projects to deliver outcomes in addition to outputs and artifacts.
- Project managers are expected to deliver projects that create value for the organization and stakeholders within the organization's system for value delivery.
- The following terms are defined to provide context for the content in this standard.



# Operations & Project Management





## What Is Project?

A Project is a Temporary

Endeavor undertaken to create
a Unique Product, Service, or

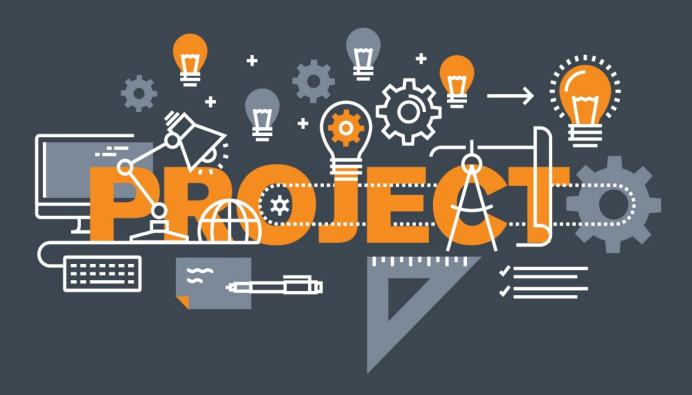
Result.





# What Is Project?

The temporary nature of projects indicates a <u>beginning and</u> an end to the project work or a phase of the project work



Projects can stand alone or be part of a Program or Portfolio

## Project's Characteristics

Unique Product,
Service or Result





Projects Drive Change

04

Temporary Endeavor





Projects Enable
Business Value
Creation

05

Personal & Organizational Development Academy

Progressive Elaboration



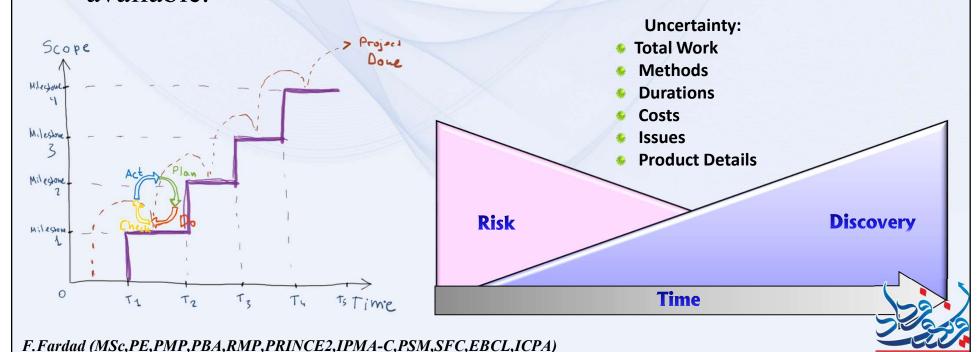
Project Initiation Context

06



#### Progressive Elaboration

- **Progressively**: proceeding in *Steps*.
- **Elaborated**: Worked with *Care* and *Detail*.
- Personal & Organizational Development Academy
- Developing in steps, and continuing in increments.
- Continuously improving and detailing a plan as more detailed and specific information and more accurate estimates become available.



#### Project Management

- The application of Knowledge, Skills, Tools and Techniques to project activities to meet Project Requirements.
- Project management refers to guiding the project work to deliver the intended outcomes.
- Project teams can achieve the outcomes using a broad range of approaches (Predictive, Hybrid, and Adaptive).



#### **Deliverables**

Any Unique and Verifiable Product, Result, or capability to perform a Service that must be produced to complete a process, phase, or project









#### Deliverables: Product



Product

 An artifact is produced, is quantifiable, and be either an end item in itself or a component item.
 Additional words for products are material and goods



Service

 Useful work performed that does not produce a tangible product or result, such as performing any of the business functions supporting production or distribution (transfer).

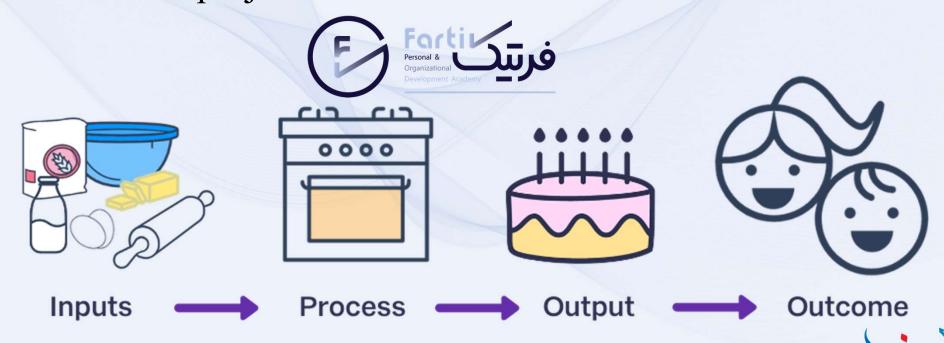


Result

 An output from performing project management processes and activities, include <u>outcomes</u> (integrated systems, revised process, rescheduled org, ...) and <u>documents</u> (e.g., policies, plans, ...).

#### Outcome

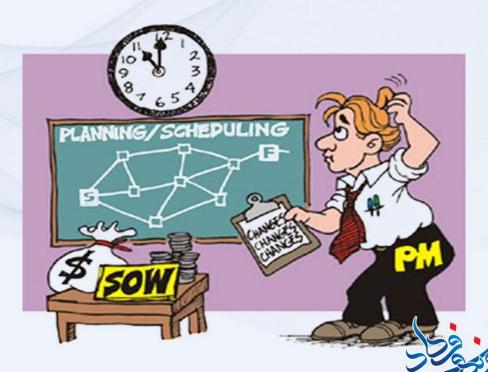
- An end result or consequence of a process or project.
- Outcomes can include Outputs and Artifacts, but have a broader intent by focusing on the benefits and value that the project was undertaken to deliver.



## Project Manager

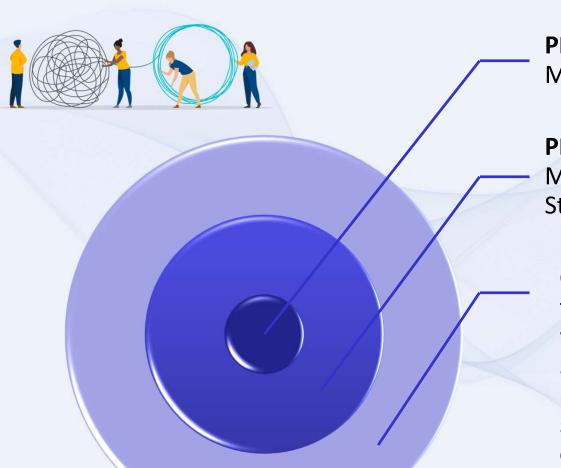
- The person assigned by the performing organization to lead the project team that is responsible for achieving the project objectives.
- Project managers perform a variety of functions, such as
  - Facilitating the project team work to achieve the outcomes and
  - Managing the processes to deliver intended outcomes.





## **Project Team**

A set of individuals performing the work of the project to achieve its objectives



PM: Project Manager

Management Staff/Team.

PMS/T: Project

Others: individuals from different groups with knowledge of a specific subject matter or with a specific skill set who carry out the work of the project



**Project Manager** 

#### **Program**

- 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 include program related work outside the scope of the discrete projects in the program.
- Programs may also include work that is operational in nature.
- Programs are not large projects.
- A very large project may be referred to as a megaproject.
- As a guideline, megaprojects cost US\$1billion or more, affect 1 million or more people, and run for years.



# Program Management

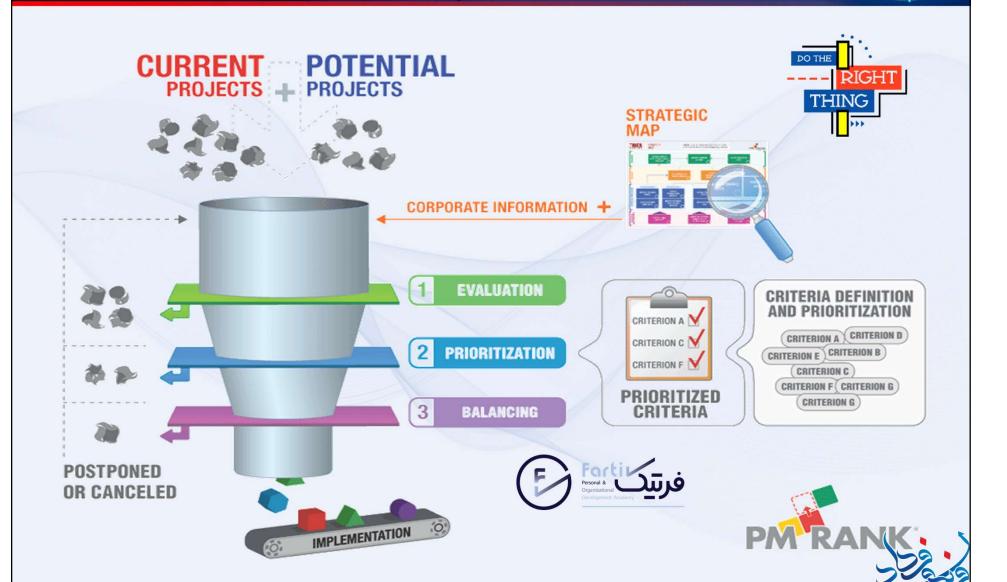
- Program management is defined as the application of knowledge, skills, and principles to a program to achieve the program objectives and to obtain benefits and control not available by managing program components individually.
- A program component refers to projects and other programs within a program.
- Project management focuses on interdependencies within a project to determine the optimal approach for managing the project.
- Program management focuses on the interdependencies between projects and between projects and the program level to determine the optimal approach for managing them.
- Example: 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.

#### Portfolio

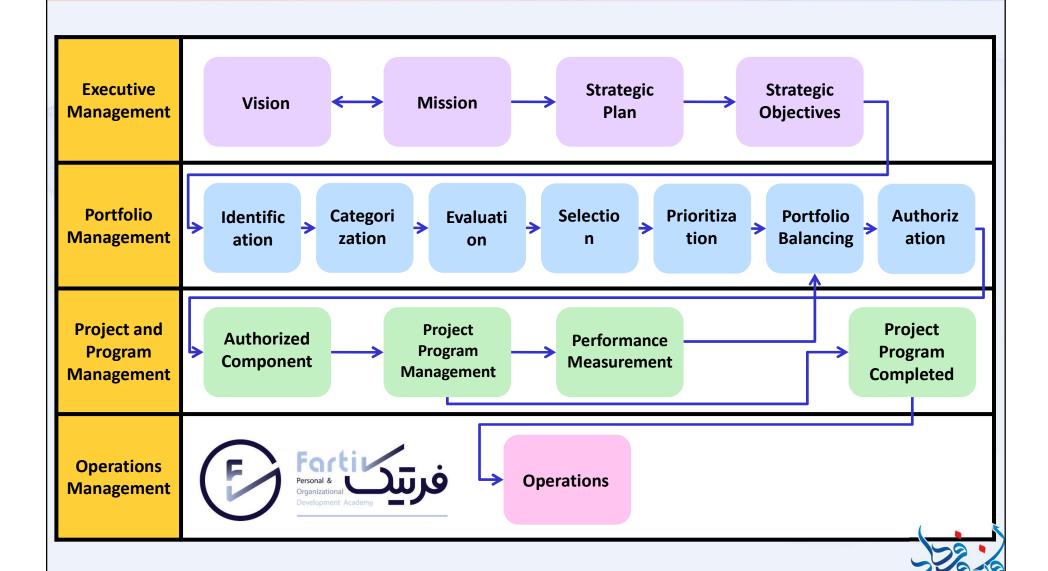
- A portfolio is defined as projects, programs, subsidiary portfolios, and operations **Managed as a Group** to achieve **Strategic Objectives**.
- The projects or programs of the portfolio may not necessarily be interdependent or directly related.
- Portfolio Management is defined as the centralized management of one or more portfolios to achieve strategic objectives.
- The **Aim** of portfolio management is to:
  - Guide organizational investment decisions.
  - Select the optimal mix of programs and projects to meet strategic objectives.
  - Provide decision-making transparency.
  - Prioritize team and physical resource allocation.
  - Increase the likelihood of realizing the desired return on investment.
  - Centralize the management of the aggregate risk profile of all components.



#### Portfolio



## Relationships Among 3P



## Relationships Among 3P

- The portfolio view allows organizations to see how the strategic goals are reflected in the portfolio.
- This coordinated governance allows authorized allocation of human, financial, and physical resources based on expected performance and benefits.
- Looking at project, program, and portfolio management from an organizational perspective:
  - Program and Project Management focus on doing programs and projects the "Right" Way; and
  - Portfolio Management focuses on Doing the "Right" Programs and Projects.



#### Value

- The Worth, Importance, or Usefulness of something.
- Different stakeholders perceive value in different ways.
- Customers can define value as the ability to use specific features or functions of a product.
- Organizations can focus on business value as determined with financial metrics, such as the benefits less the cost of achieving those benefits.
- Societal value can include the contribution to groups of people, communities, or the environment.



# System For Value Delivery

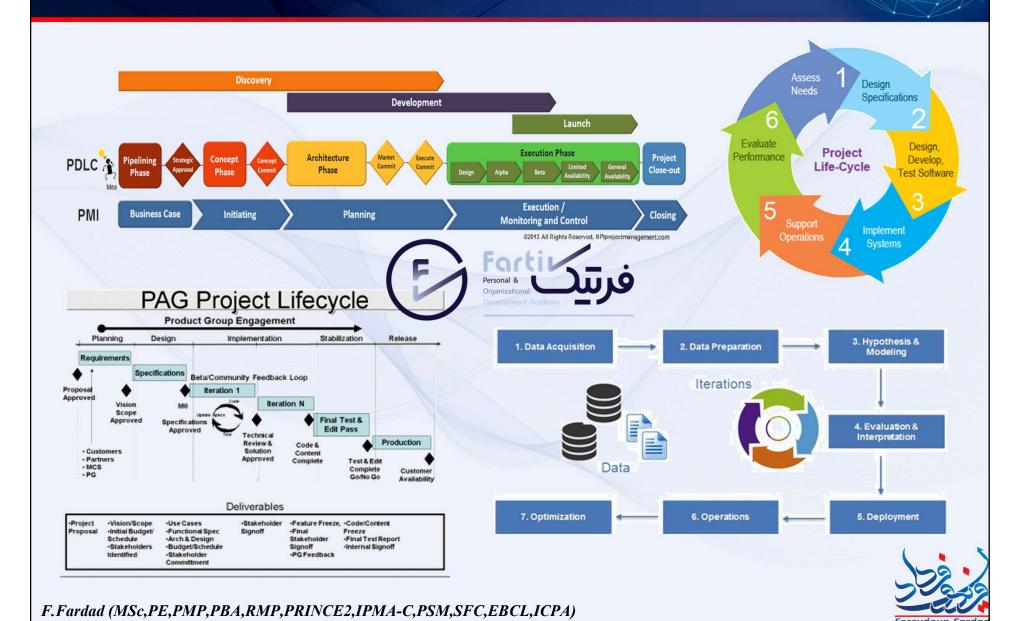
- A collection of strategic business activities aimed at building, sustaining, and/or advancing an organization.
- Portfolios, Programs, Projects, Products, and Operations can all be part of an Organization's System for Value Delivery.



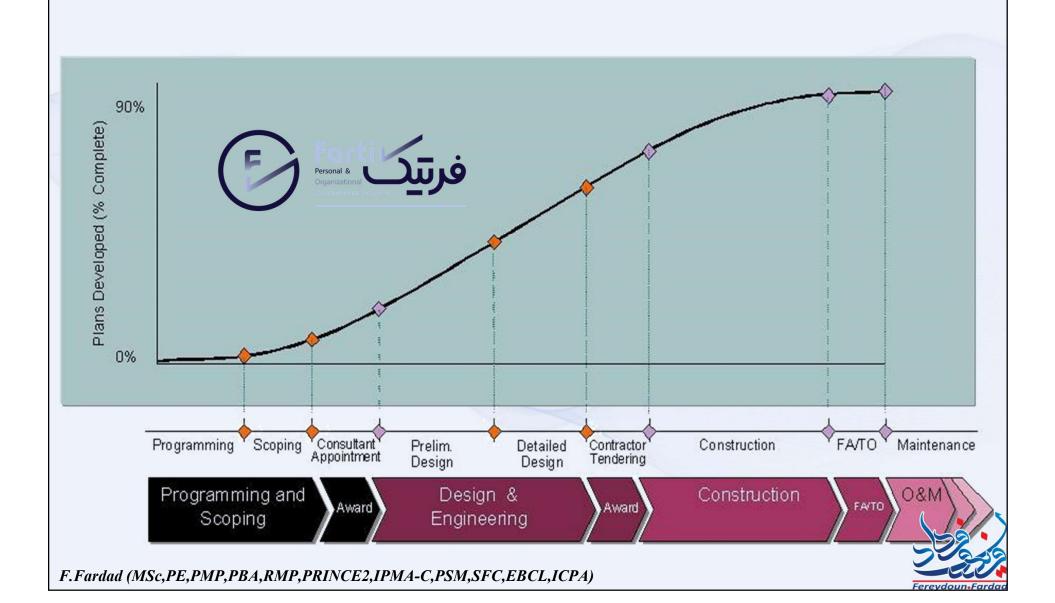
## Project Life Cycle

- A project life cycle is the series of phases that a project passes through from its initiation to its closure.
- They are generally sequential, and their names and numbers are determined by:
  - The management and Control needs of the organization(s) involved in the project,
  - The nature of the project itself, and
  - Its area of application.
- The phases can be broken down by functional or partial objectives, intermediate results or deliverables, specific milestones within the overall scope of work, or financial availability.
- Phases are generally time bounded, with a start and ending or control point.

## Project Life Cycle



# Project Life Cycle



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