

PROJECT MANAGEMENT STATISTICS

- The global project management industry accounts for trillions of dollars annually. In 2021, it was estimated that project management investments worldwide amounted to approximately \$4.1 trillion.
- Only about 36% of projects globally are completed on time and within budget. The Standish Group's CHAOS Report found that in 2020, just 36% of projects were considered successful, meeting their original objectives within the allotted time and budget.

PROJECT MANAGEMENT STAŢIŞTICS

The adoption of project management software is widespread, with over 77% of high-performing projects using project management software. According to the Project Management Institute (PMI), in its 2020 Pulse of the Profession report, 77% of high-performing projects utilized project management software, demonstrating the increasing reliance on technology for project management

ADVANTAGES OF USING PROJECT MANAGEMENT

- Exam Hint!!
 - Better control of financial, physical, and human
 resources
 - Improved customer relations
 - Shorter development times
 - Lower costs
 - Higher quality and increased reliability
 - Higher profit margins
 - Improved productivity
 - Better internal coordination
 - Higher worker morale





WHAT IS A PROJECT? Exam Que

xam Hint !!



A project is "a temporary endeavor undertaken to accomplish a unique product or service"

Attributes of projects

- o unique purpose
- temporary
- require resources, often from various areas
- should have a primary sponsor and/or customer

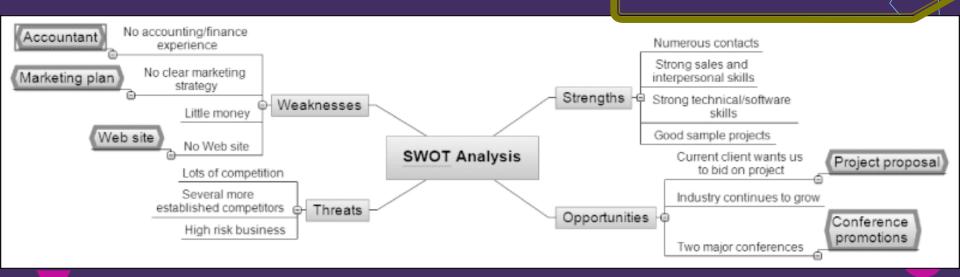
SAMPLES OF IT PROJECTS IN SRI LANKA

- Lanka Government Network LGN 2.0 and Wifi Facility
- P-Connect Fibre Network and Wifi Facility for Post
 Offices
- Lanka Government Cloud 2.0
- Mational Data Center
- Internet Backbone
- Employee Provident Fund (EPF) & Employee Trust (ETF) Fund Consolidated centralized ICT Solution.
 - Mational Cyber Security Operations Center
- Centralized Prison's Management System



MIND MAP OF A SWOT ANALYSIS TO HELP IDENTIFY POTENTIAL PROJECTS

Exam Hint





FOCUSING ON BROAD ORGANIZATIONAL NEEDS

- It is often difficult to provide strong justification for many IT projects, but everyone agrees they have a high value.
- "It is better to measure gold roughly than to count pennies precisely".
- Three important criteria for projects:
- I. There is a *need* for the project
- I. There are *funds* available
- $_{7}\mathrm{H}_{1}$. There's a strong will to make the project succeed

Quethe Triple Constraint



Exam Hint !!

Every project is constrained in different ways by its,

Scope goals : What is the project trying to accomplish?

Time goals : How long should it take to complete?

Cost goals : What should it cost?

It is the project manager's duty to balance these three often competing goals



Weak business case

- Exam Que
- Lack of senior management commitment
- Inadequate project planning (budget, schedule, scope, etc.)
- Absence of user involvement
- New or unfamiliar technology
- Lack of defined, clear, or concise requirements

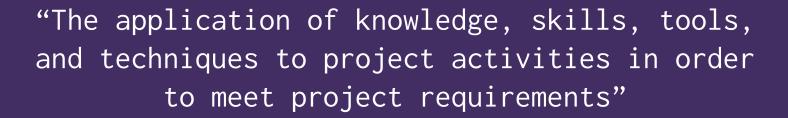
WHY IT PROJECTS SUCCEED?

- Exam Que
- Sound project management processes
- Project tied to the organization's business goals
- Senior management commitment
- Good change management
- Detailed requirements

WHY IT PROJECTS SUCCEED?

- Realistic schedule
- Good stakeholder relationships
- Empowered project manager
- Skilled and appropriate team members with defined roles and responsibilities
- Availability of funding

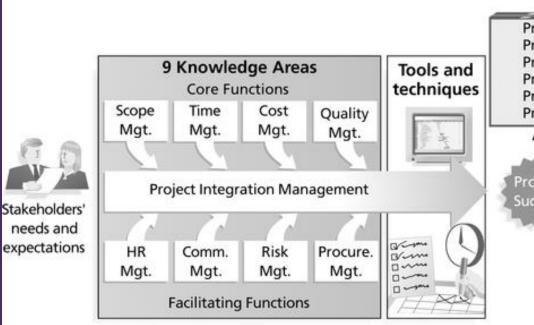


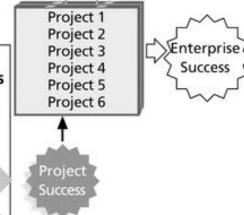






PROJECT MANAGEMENT FRAMEWORK





Project Portfolio

Figure 1-2. Project Management Framework

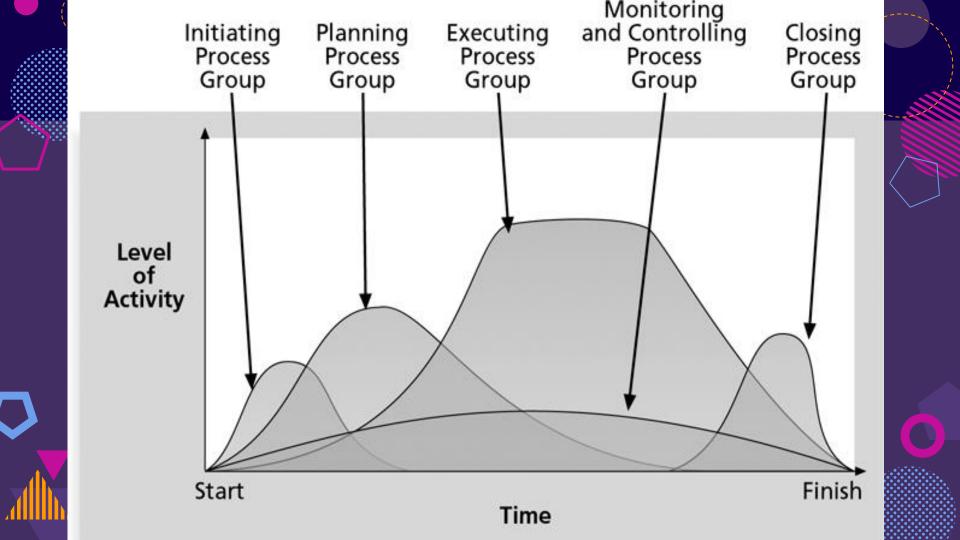
needs and

9 PROJECT MANAGEMENT KNOWLEDGE AREAS

- M Knowledge areas describe the key competencies that project managers must develop
- 4 core knowledge areas lead to specific project
 objectives (scope, time, cost, and quality)
- 4 facilitating knowledge areas are the means through
 which the project objectives are achieved (human
 resources, communication, risk, and procurement
 management)
- 1 knowledge area (project integration management)
 affects and is affected by all of the other knowledge
 areas

PROJECT MANAGEMENT Que PROCESS GROUPS

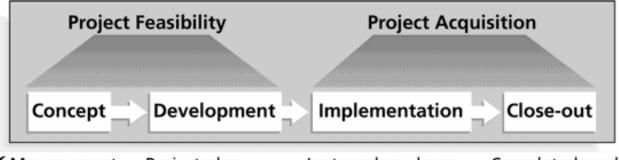
- A process is a series of actions directed toward a particular result.
- Project management can be viewed as a number of interlinked processes.
- The project management process groups include:
- I. Initiating processes
- II. Planning processes
- III.Executing processes
- IV. Monitoring and controlling processes
- V. Closing processes



KNOWLEDGE AREA						
	INITIATING	PLANNING	EXECUTING	MONITORING & CONTROLLING	CLOSING	
Project Integration Management	Develop project charter, Develop preliminary project scope statement	Develop project management plan	Direct and manage project execution	Monitor and control project work, Integrated change control	Close project	
Project Scope Management		Scope planning, Scope definition, Create WBS		Scope verification, Scope control		
Project Time Management		Activity definition, Activity sequencing, Activity resource estimating, Activity duration estimating, Schedule development		Schedule control		
Project Cost Management		Cost estimating, Cost budgeting		Cost control		

	KNOWLEDGE AREA		PROJECT MANAG	PROJECT MANAGEMENT PROCESS GROUPS			
		INITIATING	PLANNING	EXECUTING	MONITORING & CONTROLLING	CLOSING	
	Project Quality Management		Quality planning	Perform quality assurance	Perform quality control		
	Project Human Resource Management		Human resource planning	Acquire project team, Develop project team	Manage project team		
	Project Communications Management		Communications planning	Information distribution	Performance reporting, Manage stakeholders		
	Project Risk Management		Risk management planning, Risk identification, Qualitative risk analysis, Quantitative risk analysis, Risk response planning		Risk monitoring and control		
	Project Procurement Management		Plan purchases and acquisitions, Plan contracting	Request seller responses, Select sellers	Contract administration	Contract	

PHASES OF THE TRADITIONAL PROJECT LIFE CYCLE (Exam



Sample deliverables for each phase

Project plan Last work package Completed work Management plan Lessons learned Preliminary Budgetary cost Definitive cost cost estimate estimate estimate 6+-level WBS Performance 3-level WBS Customer acceptance reports

PROJECT PHASES AND THE PROJECT LIFE CYCLE

- A project life cycle is a collection of project
 phases that defines:
- What work will be performed in each phase.
- What deliverables will be produced and when.
- Who is involved in each phase.
- How management will control and approve work produced in each phase.
- A deliverable is a product or service produced or provided as part of a project.

PROJECT PHASES AND THE PROJECT LIFE CYCLE

- In the early phases of a project life cycle
- Resource needs are usually lowest.
- The level of uncertainty (risk) is highest.
- Project stakeholders have the greatest opportunity to influence the project.
- In the middle phases of a project life cycle
- The certainty of completing a project increases.
- More resources are needed.
- In the final phase of a project life cycle
- The focus is on ensuring that project requirements were met.
- The sponsor approves completion of the project.

THE IMPORTANCE OF PROJECT PHASES AND MANAGEMENT REVIEWS

 A project should successfully pass through each of the project phases in order to continue on to the next.

Management reviews, also called phase exits or kill points, should occur after each phase to evaluate the project's progress, likely success, and continued compatibility with organizational goals.





ROLE OF A PROJECT MANAGER

- The role of a project manager is affected by the oneshot nature of the project
- The role of a project manager is difficult when team members are still linked to their permanent work areas
- Members may be assigned to several projects
 simultaneously
- Managers must rely on their communication skills and powers of persuasion

PROJECT MANAGER ATTRIBUTES

- ① Leader & manager
- Facilitator, coordinator
- Communicator
- Credibility: Technical/

Administrative

- Work under pressure
- Goal-oriented
- Innovator

- M Knowledgeable about the organization
- Political sensitivity
- Conflict: sense, confront,
 resolve
- Can deal with stress, chaos,
 ambiguity
- Planning and follow-through
 Ethical dilemmas

PROJECT MANAGER DUŢĮES

- Reports to senior management
- Communicates with users
- Plans and schedules
- ① Obtains and allocates resources
- ① Controls risks
- Manages people
- Coordinates
- Implements quality assurance
- ① Controls the budget
- Delivers results

PROJECT STAKEHOLDERS



Stakeholders are the people involved in or affected by project activities

Stakeholders include

- the project sponsor and project team
- support staff
- customers
- users
- suppliers
- opponents to the project





HOW PROJECT MANAGEMENT RELATES TO OTHER DISCIPLINES

- Much of the knowledge needed to manage projects is unique to the discipline of project management
- Project mangers must also have knowledge and experience in
- general management
- the application area of the project



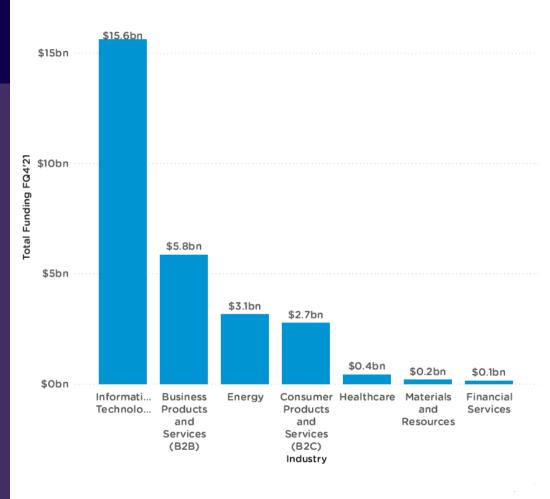
- The job of IT Project Manager is in the list of the top ten most in demand IT skills
- Professional societies like the Project Management
 Institute (PMI) have grown tremendously
- Project management research and certification programs continue to grow



- Project management applies to work as well as personal projects
- Project management applies to many different
 disciplines (IT, construction, finance, sports, event
 planning, etc.)
- Project management skills can help in everyday life

These industries have the money to hire -Jan 2022





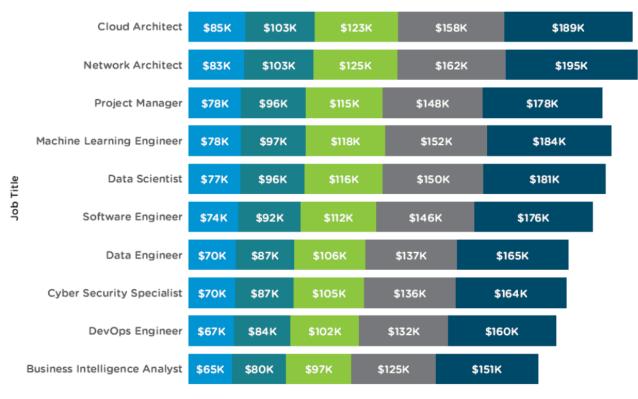
The most indemand tech jobs and their salaries divided by

percentiles.

Source: Economic Research Institute

Percentiles by Jobs

•10th Percentile •25th Percentile •Mean •75th Percentile •90th Percentile



Annual Salary

