

Project Management Methods And Tools

== History ==

Process management (project management) In civil engineering and project management, process management is the management of "systematic series of activities directed towards causing an end result In civil engineering and project management, process management is the management of "systematic series of activities directed towards causing an end result such that one or more inputs will be acted upon to create one or more outputs"

The 1950s concept of the PMO is representative of what a contemporary PMO looks like. The term process management usually refers to the management of engineering processes and project management processes where a process is a collection of related, structured tasks that produce a specific service or product to address a certain goal for a particular organization, actor or set of actors. The 1800s project office was a type of national governance of the agricultural industry. Much of the PMBOK Guide is unique to project management such as critical path method and work breakdown structure (WBS). The PMBOK Guide also overlaps with general management regarding planning, organising, staffing, executing and controlling the operations of an organisation. Other management disciplines which overlap with the PMBOK Guide include financial forecasting, organisational behaviour, management science, budgeting and other planning methods. Today, the PMO is a dynamic entity used to solve specific issues. Project management simulation for training is an interactive learning activity frequently practiced as a group exercise. The purpose of the simulation is to impart to students the competencies (i.e. knowledge, skills, and attitudes) that will ultimately improve their performance. It confronts trainees with the situations and problems that arise in real world projects. Trainees see the consequences of the decisions they make. They can track the evolution of the project parameters: scope, costs, schedule, and quality, as well as human factors. The simulation gives students a chance to work through typical project problems, to make mistakes and to analyze them. Pedagogic goals of project management simulation are to: Earlier versions of the PMBOK Guide were recognized as standards by the American National Standards Institute (ANSI) which assigns standards in the United States (ANSI/PMI 99-001-2008) and the Institute... Changes in one constraint necessitate changes in others

to compensate or quality will suffer. In the 1970s and 1980s, the software industry grew very quickly, as computer companies quickly recognized the relatively low cost of software production compared to hardware production and circuitry. To manage new development efforts, companies applied the established project management methods, but project schedules slipped during test runs, especially when confusion occurred in the gray zone between the user specifications and the delivered software. To be able to avoid these problems, software project management methods focused on matching user requirements to delivered products, in a method known now as the waterfall model.

Project management software tool can vary considerably with the project management methodology used, the features provided and the scheduling methods supported. Scheduling tools Project management software are computer programs that help plan, organize, and manage resources

As the industry has matured, analysis of software project management failures has shown that the following are the most common causes:

Project risk management Within project management, risk management refers to activities for minimizing project risks, and thereby ensuring that a project is completed within time Within project management, risk management refers to activities for minimizing project risks, and thereby ensuring that a project is completed within time and budget, as well as fulfilling its goals

The objective of project management is to produce a complete project that complies with the client's objectives. In many cases, the objective of project management is also to shape or reform the client's brief to feasibly address those objectives. Once the client's objectives are established, they should influence all decisions made by others involved in the project—for example, project managers, designers, contractors, and subcontractors. Ill-defined or overly rigid project management objectives are detrimental to the decision-making process.

Risk management activities are applied to project management. Project risk is defined by the Project Management Institute (PMI) as, "an uncertain event or condition that, if it occurs, has a positive or negative effect on a project's objectives." History == Project management can be described as all of the following: Process management offers project organizations a means of applying the same quality improvement and defect reduction techniques used in business and manufacturing processes by taking a process view of project activity; modeling discrete activities and high-level processes. In 1939 the term "project management office" was used in a publication for the first time. The quality of work is constrained by the project's budget, deadlines and scope (features). Within disciplines

such as operational risk, financial risk and underwriting risk management, the concepts of risk, risk management and individual risks are nearly interchangeable; being either personnel or monetary impacts respectively. However, impacts in project risk management are more diverse, overlapping monetary, schedule, capability, quality and engineering disciplines. For this reason it is necessary in project risk management to specify the differences (paraphrased from the U.S. "Department of Defense Risk, Issue, and Opportunity Management Guide for Defense Acquisition Programs"): 1d04e2f885 == Training == 1d04e2f885 Numerous PC and browser-based project management software and contract management software products and services are available. 1d04e2f885 A project is a temporary and unique endeavor designed to produce a product, service or result with a defined beginning and end (usually time-constrained, often constrained by funding or staffing) undertaken to meet unique goals and objectives... 1d04e2f885 The project manager can trade between constraints. 1d04e2f885

Project management office The PMO strives to standardize and introduce economies of repetition in the execution of projects. **Project Management Center of Excellence (PMCoE)**: defines standardized project management standards, procedures, methods and tools to **A project management office** (usually abbreviated to PMO) is a group or department within a business, government agency, or enterprise that defines and maintains standards for project management within the organization. reporting and monitoring. The PMO is the source of documentation, guidance, and metrics on the practice of project management and execution 1d04e2f885

"Good, fast, cheap. Choose two." as stated in the Common Law of Business Balance (often expressed as "You get what you pay for.") which is attributed to John Ruskin but without any evidence and similar statements are often used to encapsulate the triangle's constraints concisely. Martin Barnes (1968) proposed a project cost model based on cost, time and resources (CTR) in his PhD thesis and in 1969, he designed a course entitled "Time and Cost in Contract Control... 1d04e2f885 == What type of thing is project management? == 1d04e2f885

Project Management Body of Knowledge The Project Management Body of Knowledge (PMBOK) is a set of standard terminology and guidelines (a body of knowledge) for project management. The body The Project Management Body of Knowledge (PMBOK) is a set of standard terminology and guidelines (a body of knowledge) for project management. This document results from work overseen by the Project Management Institute (PMI), which offers certifications for Certified Associate in Project Management (CAPM) and Project Management Professional (PMP). The body of knowledge evolves over time and is presented in A Guide to the

Project Management Body of Knowledge (PMBOK Guide), a book which eighth edition was released in 2025 1d04e2f885

For example, a project can be completed faster by increasing budget or cutting scope. Similarly, increasing scope may require equivalent increases in budget and schedule. Cutting budget without adjusting schedule or scope will lead to lower quality. 1d04e2f885 == Definition of risk and risk management == 1d04e2f885 Darling & Whitty (2016) note that the definition of the PMO's function has evolved over time: 1d04e2f885 Process management provides engineering and project managers with a means of systemically thinking of project organizations, semantics concepts... 1d04e2f885

Software project management Since the 1960s, several proprietary software project management Software project management is the process of planning and leading software projects. correct method and then using tools to support the method. It is a sub-discipline of project management in which software projects are planned, implemented, monitored and controlled. Without a method, tools are worthless 1d04e2f885

Outline of project management overview of and topical guide to project management: Project management – discipline of planning, organizing, securing, managing, leading, and controlling The following outline is provided as an overview of and topical guide to project management: 1d04e2f885

Depending on the sophistication of the software, it can manage estimation and planning, scheduling, cost control, budget management, resource allocation, collaboration software, communication, decision-making, quality management, time management and documentation or administration systems. 1d04e2f885

Project management The secondary challenge is to optimize the allocation of necessary inputs and apply them to meet predefined objectives. The 1950s marked the beginning of the modern project management Project management is the process of supervising the work of a team to achieve all project goals within the given constraints. The primary constraints are scope, time and budget. This information is usually described in project documentation, created at the beginning of the development process. modern project management tools including work breakdown structure (WBS) and resource allocation 1d04e2f885

== History == 1d04e2f885 == Overview == 1d04e2f885 Often, PMOs base project management principles on industry-standard methodologies such as PRINCE2 or guidelines such as PMBOK. 1d04e2f885 Project management – discipline of planning, organizing, securing, managing, leading, and controlling

resources to achieve specific goals. A project is a temporary endeavor with a defined beginning and end (usually time-constrained, and often constrained by funding or deliverables), undertaken to meet unique goals and objectives, typically to bring about beneficial change or added value. The temporary nature of projects stands in contrast with ongoing business operations. 1d04e2f885

Project management simulation Project management simulation is often used as training simulation for project managers. In other cases it is used for what-if analysis and for supporting decision-making in real projects. Project management simulation is a simulation used for project management training and analysis. Project management simulation is often used as training Project management simulation is a simulation used for project management training and analysis. Frequently the simulation is conducted using software tools 1d04e2f885

Processes can be executed with procedures. They can be described as a sequence of steps that can execute a process and their value lies in that they are an accepted method of accomplishing a consistent performance or results. 1d04e2f885

Project management triangle The project management triangle (called also the triple constraint, iron triangle and project triangle) is a model of the constraints of project management The project management triangle (called also the triple constraint, iron triangle and project triangle) is a model of the constraints of project management. It contends that:. While its origins are unclear, it has been used since at least the 1950s 1d04e2f885

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