

Project Management Planning And Control Techniques Knowledge Zone

Project management

project management are Henry Gantt, called the father of planning and control techniques, who is famous for his use of the Gantt chart as a project management

Project management is the process of supervising the work of a team to achieve all project goals within the given constraints. This information is usually described in project documentation, created at the beginning of the

development process. The primary constraints are scope, time and budget. The secondary challenge is to optimize the allocation of necessary inputs and apply them to meet predefined objectives.

The objective of project management is to produce a complete project which 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 the client's objectives. Once the client's objectives are established, they should influence all decisions made by other people involved in the project- for...

Transportation planning

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Transportation planning is the process of defining future policies, goals, investments, and spatial planning designs to prepare for future needs to move people and goods to destinations. As practiced today, it is a collaborative process that incorporates the input of many stakeholders including various

government agencies, the public and private businesses. Transportation planners apply a multi-modal and/or comprehensive approach to analyzing the wide range of alternatives and impacts on the transportation system to influence beneficial outcomes.

Transportation planning is also commonly referred to as transport planning internationally, and is involved with the evaluation, assessment, design, and siting of transport facilities (generally streets, highways, bike lanes, and public transport lines...

Innovation management

lifecycle management, idea management, design thinking, TRIZ, Phase-gate model, project management, product line planning and portfolio management. The process

Innovation management is a combination of the management of innovation processes, and change management. It refers to product, business process, marketing and organizational innovation. Innovation management is the subject

of ISO 56000 (formerly 50500) series standards being developed by ISO TC 279.

Innovation management includes a set of tools that allow managers plus workers or users to cooperate with a common understanding of processes and goals. Innovation management allows the organization to respond to external or internal opportunities, and use its creativity to introduce new ideas, processes or products. It is not relegated to R&D; it involves workers or users at every level in contributing creatively to an organization's product or service development and marketing.

By utilizing innovation...

Land-use planning

- is contested, and depends on the location and regulations being discussed. In urban planning, land use planning seeks to order and regulate land use

Land use planning or land-use regulation is the process of regulating the use of land by a central authority. Usually, this is done to promote more desirable

social and environmental outcomes as well as a more efficient use of resources. More specifically, the goals of modern land use planning often include environmental conservation, restraint of urban sprawl, minimization of transport costs, prevention of land use conflicts, and a reduction in exposure to pollutants. In the pursuit of these goals, planners assume that regulating the use of land will change the patterns of human behavior, and that these changes are beneficial. The first assumption, that regulating land use changes the patterns of human behavior is widely accepted. However, the second assumption – that these changes are beneficial...

Change management

future profit margins. In a project management context, the term “change management” may be used as an alternative to change control processes wherein formal

Change management (CM) is a discipline that focuses on managing changes within an organization. Change management involves implementing approaches

to prepare and support individuals, teams, and leaders in making organizational change. Change management is useful when organizations are considering major changes such as restructure, redirecting or redefining resources, updating or refining business process and systems, or introducing or updating digital technology.

Organizational change management (OCM) considers the full organization and what needs to change, while change management may be used solely to refer to how people and teams are affected by such organizational transition. It deals with many different disciplines, from behavioral and social sciences to information technology and business...

Urban planning

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Urban planning (also called city planning or town planning in some contexts) is the process of developing and designing land use and the built environment,

including air, water, and the infrastructure passing into and out of urban areas, such as transportation, communications, and distribution networks, and their accessibility. Traditionally, urban planning followed a top-down approach in master planning the physical layout of human settlements. The primary concern was the public welfare, which included considerations of efficiency, sanitation, protection and use of the environment, as well as taking account of effects of the master plans on the social and economic activities. Over time, urban planning has adopted a focus on the social and environmental "bottom lines" that focuses on using...

Material requirements planning

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Material requirements planning (MRP) is a production planning, scheduling, and inventory control system used to manage manufacturing processes. Most MRP systems are software-based, but it is possible to conduct MRP by hand as well.

An MRP system is intended to simultaneously meet three objectives:

Ensure raw materials are available for production and products are available for delivery to customers.

Maintain the lowest possible material and product levels in store

Plan manufacturing activities, delivery schedules and purchasing activities.

Coastal management

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Coastal management is defence against flooding and erosion, and techniques that stop erosion to claim lands. Protection against rising sea levels in the 21st century is crucial, as sea level rise accelerates due to climate change. Changes in sea level damage beaches and coastal systems are expected to rise at an increasing rate, causing coastal sediments to be disturbed by tidal energy.

Coastal zones occupy less than 15% of the Earth's land area, while they host more than 40% of the world population. Nearly 1.2 billion people live within 100 kilometres (62 mi) of a coastline and 100 metres (328 ft) of sea level, with an average density three times higher than the global average for population. With three-quarters of the world population expected to reside in the coastal zone by 2025, human...

Supply chain management

products and delivered to their end customers. A more narrow definition of supply chain management is the "design, planning, execution, control, and monitoring

In commerce, supply chain management (SCM) deals with a system of procurement (purchasing raw materials/components), operations management, logistics and marketing channels, through which raw materials can be developed into finished products and delivered to their end customers. A more narrow definition of supply chain management is the "design, planning,

execution, control, and monitoring of supply chain activities with the objective of creating net value, building a competitive infrastructure, leveraging worldwide logistics, synchronising supply with demand and measuring performance globally". This can include the movement and storage of raw materials, work-in-process inventory, finished goods, and end to end order fulfilment from the point of origin to the point of consumption. Interconnected...

Family planning

of contraception (birth control) and other techniques to control the timing of reproduction. Other aspects of family planning aside from contraception

Family planning is the consideration of the number of children a person wishes to have, including the choice to have no children, and the age at which they wish to have them. Things that may play a role on family planning decisions include marital situation, career or work considerations, or financial situations. If sexually active, family planning may involve the use of contraception (birth control) and other techniques to control the timing of reproduction.

Other aspects of family planning aside from contraception include sex education, prevention and management of sexually transmitted infections, pre-conception counseling and management, and infertility management. Family planning, as defined by the United Nations and the World Health Organization, encompasses services leading up to conception...

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