

Lean Production Lean Management

== Overview == b2f1de4c20 Lean construction required the application of a robust programmatic framework to all repair, renovation, maintenance, and or new build activities. While each project may be unique, the application of LEAN fundamental should be applied consistently. Lean construction is concerned with the alignment and holistic pursuit of concurrent and continuous improvements in all dimensions of the built and natural environment: design, construction, activation, maintenance, salvaging, and recycling. This approach tries to manage and improve construction processes with minimum cost and maximum value by considering customer needs. b2f1de4c20

Lean software development Adapted from the Toyota Production System, it is emerging with the support of a pro-lean subculture within the agile community. Adapted from the Toyota Production System, it is emerging with the support of a pro-lean subculture within the agile community. Lean offers a solid conceptual Lean software development is a translation of lean manufacturing principles and practices to the software development domain. Lean offers a solid conceptual framework, values and principles, as well as good practices, derived from experience, that support agile organizations b2f1de4c20

== Paradigm == b2f1de4c20 == Principle == b2f1de4c20 The engines designed for lean-burning can employ higher compression ratios and thus provide better performance, efficient fuel use and low exhaust... b2f1de4c20 The expression "lean software development" originated in a book by the same name, written by Mary Poppendieck and Tom Poppendieck in 2003. The book restates traditional lean principles, as well as a set of 22 tools and compares the tools to corresponding agile practices. The Poppendiecks' involvement in the agile software development community, including talks at several Agile conferences has resulted in such concepts being more widely accepted within the agile community. b2f1de4c20 Toyota started its journey with lean product development at Toyota Loom Works (see History of Toyota). Their early approach is notably different from Lean manufacturing which became famous through the book "The Machine That Changed the World". b2f1de4c20 == History of Lean Product Development == b2f1de4c20 When Toyota started manufacturing cars, there was a difference in manufacturing conditions between Japan and the USA. Toyota had few educated engineers and little prior experience. Car companies in the US employed a well-educated workforce in the cities and benefited from the research and student skill sets of established engineering schools. To tackle this shortfall in knowledge and experience, Toyota conducted an incremental approach to development that built on their existing knowledge and became the basis of the lean systems Toyota uses today. b2f1de4c20 Lean manufacturing and Services, contrasted by Levitt; "Manufacturing looks for solutions inside the very tasks to be done... Service looks for solutions in the performer of the task." (T.Levitt, Production-Line Approach to Service, Harvard Business Review, September 1972). b2f1de4c20 "Lean" is a systematic method for the elimination of waste ("Muda") within a manufacturing system. Lean also takes into account waste created through overburden ("Muri") and waste created through unevenness in work loads ("Mura"). Working from the perspective of the client who consumes a product or service, "value" is any action or process that a customer would be willing to pay for. b2f1de4c20

Lean project management Lean project management is the application of lean concepts such as lean construction, lean manufacturing and lean thinking to project management. Lean Lean project management is the application of lean concepts such as lean construction, lean manufacturing and lean thinking to project management b2f1de4c20

The term "lean thinking" was coined by mechanical engineer and MIT graduate student John Krafcik in 1988, who subsequently went on to run Google LLC's autonomous driving unit for many years. b2f1de4c20

Lean startup Lean startup emphasizes customer feedback over intuition and flexibility over planning. management Lean hardware Lean events Lean manufacturing Lean marketing Lean product management Lean sales Lean software development Lean UX The lean startup Lean startup is a methodology for developing businesses and products that aims to shorten product development cycles and rapidly discover if a proposed business model is viable; this is achieved by adopting a combination of business-hypothesis-driven experimentation, iterative product releases, and validated learning. This methodology enables recovery from failures more often than traditional ways of product development b2f1de4c20

Definition of "Service": see Service, Business Service and/or Service Economics. Lean Services history, see Lean manufacturing. b2f1de4c20 The creation of an ISM removes the barriers posed by the silos or stovepipes inherent in the departmentalization of... b2f1de4c20 == History == b2f1de4c20

Lean thinking Lean thinking encourages whole organisation participation. Lean thinking is a business management framework made up of a philosophy, practices and principles which aim to help practitioners improve efficiency and Lean thinking is a business management framework made up of a philosophy, practices and principles which aim to help practitioners improve efficiency and the quality of work. The goal is to organise human activities to deliver more benefits to society and value to individuals while eliminating waste b2f1de4c20

Lean approach makes obvious what adds value by reducing everything else which does not add value. This management philosophy is derived mostly from the Toyota Production System (TPS) and identified as "lean" only in the 1990s. TPS is renowned for its focus on reduction of the original Toyota seven wastes to improve overall customer value, but there are varying perspectives on how... b2f1de4c20 A lean-burn mode is a way to reduce throttling losses. An engine in a typical vehicle is sized for providing the power desired for

acceleration, but must operate well below that point in normal steady-speed operation. Ordinarily, the power is cut by partially closing a throttle. However, the extra work done in pulling air through the throttle reduces efficiency. If the fuel/air ratio is reduced, then lower power can be achieved with the throttle closer to fully open, and the efficiency during normal driving (below the maximum torque capability of the engine) can be higher.

Computer-aided lean management Computer-aided lean management, in business management, is a methodology of developing and using software-controlled, lean systems integration. It attempts to create an efficient use of capital and resources through the development and use of one integrated system model to run a business's planning, engineering, design, maintenance, and operations. Its goal Computer-aided lean management, in business management, is a methodology of developing and using software-controlled, lean systems integration. Its goal is to drive innovation towards cost and cycle-time savings

Lean project management has many ideas in common with other lean concepts; however, the main principle of lean project management is delivering more value with less waste in a project context.

Computer-Aided Lean Management (CALM) is a management philosophy that uses software to reduce risk and inefficiencies. CALM acts on uncertainties and business inefficiencies to increase profitability through the use of computational decision-making tools that enable opportunities for additional value creation. It is based on the application of software to enable continuous improvement through an Integrated System Model (ISM) of the business’s physical assets, business processes, and machine learning. This integration of software applications using lean principles was developed in the aerospace industry and has migrated to the energy industry.

Similar to the precepts of lean manufacturing and lean... By receiving goods only when needed, Lean reduces inventory costs and wastage, while increasing productivity and profit. A successful operation depends on producers having fast and high-quality processes that can generate on-demand, result of involving workers bottom-up.

Central to the lean startup methodology is the assumption that when startup companies invest their time into iteratively building products or services to meet the needs of early customers, the company can reduce market risks and sidestep the need for large amounts of initial project funding and expensive product launches and financial failures. While the events leading up to the launch can make or break a new business, it is important to start with the end in mind, which means thinking about the direction in which you want your business to grow and how to put all the right pieces in place to make this possible.

Lean construction with Henry Ford and Toyota in the 20th century. LEAN was first applied in “modern day” production management by Henry Ford, and his ground-breaking automobile Lean construction is a combination of operational research and practical development in design and construction with an adoption of lean manufacturing principles and practices to the end-to-end design and construction process

== Origin ==

Lean manufacturing Lean manufacturing is a management system built on three principles: produce only what is needed, when it is needed; correct abnormalities as soon as they Lean manufacturing is a management system built on three principles: produce only what is needed, when it is needed; correct abnormalities as soon as they occur; and empower workers to improve the process themselves

Lean services Lean services have among others been applied to US health care providers and the UK HMRC. Lean services have Lean services is the application of lean manufacturing production methods in the service industry (and related method adaptations). Lean services is the application of lean manufacturing production methods in the service industry (and related method adaptations)

Allen Ward studied Toyota’s lean product development... At its core, Lean eliminates activities that do not add value for the customer. Where just-in-time (JIT) manufacturing focuses on inventory strategy — receiving goods only as needed to reduce costs and waste — Lean goes further by reducing cycle time, flow time, and throughput time across the entire system, including marketing and customer service. According to one study: "While Just-In-Time manufacturing focuses on efficiency of inventory strategy to eliminate waste and enhance productivity, Lean manufacturing uses efficiency in its system setups to reduce cycle, flow, and throughput times being the added values to customers."

Lean product development This method of product development has been adopted by companies such as Toyota. Other core principles include putting people over the product and creating new values in services and physical products. Design for lean manufacturing Lean startup Lean project management Muntzing Toyota Production System COLETEK Product Development Lean product development (LPD) is an approach to product development that specializes in minimizing waste. illustrated in the table below

== Overview == History == Origins == Lean Project Management applies the five principles of lean thinking to project management.

Lean-burn In lean-burn engines the air-fuel ratio may be as lean as 65:1 (by mass). used to reduce losses caused by other engine power management systems such as throttling losses. A lean-burn mode is a way to reduce throttling losses. The air:fuel ratio needed to stoichiometrically combust gasoline, by contrast, is 14. An Lean-burn refers to the burning of fuel with an excess of air in an internal combustion engine. High air-fuel ratios can also be used to reduce losses caused by other engine power management systems such as throttling losses. The excess of air in a lean-burn engine emits far less hydrocarbons. 64:1

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