EXECUTIVE SUMMARY

Projects are the engines that drive innovation and change. Yet they have been ignored for a long time by top managers. This is why many projects do not meet their objectives. To unleash the hidden potential that exists in projects, companies must learn how to manage them in a highly adaptive and flexible way. Once the new frameworks are adopted, projects have the potential of becoming one of the most powerful competitive assets of modern corporations.

Unleashing the Power of Project Management



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When you look at Egypt's pyramids, the Great Wall of China, the Greek Pantheon, and England's Stonehenge, you realize that throughout history societies have figured out ways to organize the efforts of large masses of people to build monumental creations that have excited later generations for hundreds or thousands of years.

Today, we call these efforts projects. Yet not until modern times when companies began organizing work around projects and when tools, techniques, and methods became standard across industries did the discipline of project management emerge.

As a formal discipline, project management as we know it was born in the middle of the 20th century. The Manhattan Project, which built the first atomic bomb during World War II, displayed the principles of organization, planning, and direction that influenced the development of standard practices for managing projects. During the Cold War, additional large and complex projects demanded new approaches. Programs such as the U.S. Air Force's intercontinental ballistic missile and the Navy's Polaris were used to develop the management control procedure called Program Evaluation and Review Technique (PERT).

Evolving simultaneously was the critical path method, which was invented by DuPont for construction projects. These methods led to network scheduling charts, which became standard planning and controlling tools of project management.

Although projects have been around for thousands of years and project management as a discipline for about 50 years, there are two reasons why projects and project management are becoming increasingly important to almost all organizations and businesses. First, let's look at any organization's activity as consisting of two parts — operations and projects. Operations are repetitive, ongoing activities such as manufacturing or services, and projects are one-time, non-repetitive initiatives or one-of-a-kind efforts. With this perspective, you may realize that the share of operations in most organizations is on the decline, while the share of projects is rising.

This trend began already in the early 1900s during the industrial revolution, and it is accelerating in almost every organization or industry: Not only do product life cycles become shorter, but today's customers require greater variety and more choices, causing companies to offer more products. In addition, market globalization is forcing businesses to respond to local markets and to lowcost competition around the world. Finally, the IT and Internet revolution is not slowing down. Even in stable industries such as banking and insurance, organizations are investing in new IT infrastructure to keep up with growing demand and competition. Each one of these trends intensifies the project activity in almost every organization.

There is a second reason that organizations need to look closely at their project management. Across the board, most projects are not meeting their time and budget goals, and many do not meet their business objectives. Study after study shows that only one out of three projects is considered successful. If two-thirds of the efforts going into projects do not create the expected value, there is clearly a reason for concern.

Opportunity

During the past few decades many organizations focused on improving their operations but not their projects. This trend goes back to the turn of the 20th century when Frederick Taylor developed his scientific management principles, which greatly influenced the evolution of mass production systems, and it continues to this date with more concepts such as just in time, lean manufacturing, re-engineering, supply

chain management, and of course, the latest one, Six Sigma.

Although operational efficiency is important, it has its limitations. With time, at least conceptually, all companies may reach a similar level of efficiency. Additional investment in efficiency may not bring the advantages that it has created in the past. At best it may help you stay in the game and not fall behind. For comparison If two- you may look at quality, which in the thirds of the past decade has become a requirement efforts going rather than an optional source of cominto projects petitiveness as in the past.

do not create

However, no business enterprise the expected today can survive if it is only focused value, there on improving its operations. Projects is clearly a are the engines that drive innovations reason for from idea to commercialization. But concern. projects are also the drivers that make organizations better, stronger, and more efficient. And since most organizations today accelerate toward a project-based world, shouldn't companies ask themselves if they are doing a better job than their competitors?

> This situation presents a tremendous opportunity. The time has come to unleash the untapped potential that exists in projects. If managers and organizations pay greater attention to their project management practices, the rewards will be significant. If top executives spend as much time on project management as they have on Six Sigma, they will make their organizations much stronger and more competitive.

Managing by the book

Yet it is not simply a matter of more effort and better attention to project management. The reality is that the current techniques as used in the discipline of project management form the necessary basis for learning and understanding what project management is all about, but they are insufficient to guarantee a project's success or address the needs of today's dynamic and uncertain projects.

We have all seen projects that were

managed exactly as required by the book - and still failed. They followed a structured process of planning and execution, which is common in the profession, and even when completed on time, they ended in disappointment for management and clients. And we have observed other projects that did not follow any acceptable structure or process, or did not have a full plan with all its elements and yet they turned out to be outstanding successes, bringing in value and fame to their performing organizations and great satisfaction to their customers.

To illustrate the point let's look at two notable projects. The first is Australia's Sydney Opera House. This famous building known for its inspiring architecture was initiated in the late 1950s. The original project plan assumed six years of construction with a budget of \$7 million. In the end, the project took 16 years to complete at a cost of more than \$100 million. From a traditional project management standpoint, this project would be seen as a colossal failure. However, today no one really cares how much it cost and everyone sees the Opera House as a success story: It brings fame and money to the city of Sydney because millions of tourists visit the building each year.

The second case involves the first section of the Red Line in a much larger plan of building a subway system in Los Angeles. This project ended in 1993, completed on time, below budget, and achieving all its scope, quality, and performance goals. It won the Project Management Institute's Project of the Year Award. Yet after this first section was completed, the rest of the program was abandoned. The reason was simply because too few people chose the subway as their preferred mode of transportation. Although the subway was the most modern rail in the United States and it offered a reliable, quite, comfortable, and timely service, residents of Los Angeles did not buy into the concept of leaving their cars at home and using the subway instead. So was the subway a successful project?

The discipline of project management is based on an outdated model that assumes projects to be successful if they meet their time and budget goals. Once the project is launched, it must continue to its end to meet time, budget, and requirements goals. Rarely do projects focus on business results or changing at mid-course to adjust to customer needs.

Management's role

Most project problems are not technical, but managerial. When technical errors cause projects to fail, it is usually management that failed to put the right system in place so that these errors would be detected in time. In addition, the current practices of project management are insufficient to predict or solve project problems. And even if you do everything according to the conventional well-established practices of project management, you may still fail.

Ironically, these traditional practices remain typically unchallenged by top management. As a result, many project teams are left on their own without much guidance from the top. They often struggle to keep projects on track while trying to fulfill unrealistic expectations of stability. They are often highly detached from dynamic business needs and changes in the environment.

The conclusion is simple. There is more to project success than following a standard set of rules. It is not the tools or applications, nor is it the lack of process. The problem lies in the mindset and the assumptions that are driving the traditional approach to project management rather than in process or practice.

There are critical questions: Can we help project teams make the right assessment before presenting their project proposals to top management? Can we show executives how to ask the right questions and foresee danger before they make a commitment to a project and before it is too late? Can we guide project teams on how to adapt their project management style to the right circumstances, environment, and task?

It seems that managers at all levels need a new framework and a new language to communicate with each other about projects.

Traditional drivers

As mentioned, the current, standard, and formal approach to project management is based on a predictable, fixed, relatively simple, and certain model. It is also generally decoupled from changes in the environment or business needs: The project plan is created that sets out the objectives for the project, and the project manager executes the plan, using a management-as-planned philosophy. After the project is launched, progress and performance are assessed against the plan and changes to the plan should be rare, and if possible, avoided.

Consider the following two major drivers of project management today:

- The triple constraint: Project managers see their job as successful when they are able to complete the project on time, within budget, and achieve performance (or requirements) goals. This has famously been named "the triple constraint" (or "iron triangle") of project management, and deviations from it are seen as a negative sign, which must be prevented or corrected.
- One size fits all: Many executives and managers assume that all projects are the same, thus suffering from the "project is a project is a project" syndrome. They expect to succeed by simply following a standard set of activities as outlined in the conventional project management books, which currently do not include guidelines for distinction among projects and for selecting the right approach for the right project.

In their struggle to keep projects on track, both executives and teams get frustrated when they are trying to fulfill unrealistic expectations of stability. Worse, in their effort to focus the project on the triple constraint, project teams often lose sight of the busi-

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budget goals.

From traditional to adaptive project management

| Model | Traditional project management | Adaptive project management |
|---------------------|--|--|
| Project goal | Getting the job done on time, on budget, and within requirements | Getting business results, meeting multiple criteria |
| Project plan | A collection of activities that need to be executed as planned to meet the triple constraint | An organization and a process to achieve the expected goals and business results |
| Planning | Plan once at project initiation | Plan at outset and re-plan when needed |
| Managerial approach | Rigid, focused on initial plan | Flexible, changing, adaptive |
| Project work | Predictable, certain, linear, simple | Unpredictable, uncertain, non-linear, complex |
| Environment effect | Minimal, detached, once the project was launched | Affects the project throughout its execution |
| Project control | Identify deviations from plan and put things back on track | Identify changes in the environment and adjust the plans accordingly |
| Distinction | All projects are the same | Projects differ |
| Management style | One size fits all | Adaptive approach: One size does not fit all |

Figure 1. In the adaptive model, projects are not just a collection of activities that need to be completed on time.

ness rationale behind their projects, that they must satisfy a customer and achieve business results, and not just meet project requirements. And when they try to follow a standard set of rules for all projects, they often employ the wrong approach to their specific project.

The classical drivers of project management are no longer enough. The traditional model fits only a small group of projects. Most modern projects are uncertain, complex, and changing, and they are highly impacted by the dynamics in the environment. Virtually every project I have studied underwent changes that were unpredictable upfront, and none of the projects was completed exactly as planned. Furthermore, projects differ in many ways, and one size does not fit all. To

succeed, projects must be adjusted to the environment, task, and goal rather than stick to one set of rules.

An adaptive framework

Instead of holding onto the traditional model, we should accept things as they are and change the project management paradigm. The new framework is success-focused, flexible, and adaptive. It is called the adaptive project management model, and it differs from the traditional approach in several ways, as shown in Figure 1.

According to this model, projects are not just a collection of activities that need to be completed on time. Projects are business-related processes that must deliver business results. They are not predictable or certain. Rather, they

involve a great deal of uncertainty and The classical complexity, and they must be managed drivers of in a flexible and adaptive way. Planning project is not rigid, fixed, or done once and management for all; it is adjustable and changing, are no longer and as the project moves forward, reenough. The planning is often appropriate or even traditional unavoidable. Project management styles model fits only must adapt to the specific project and a small group its requirements, and one size does not of projects. fit all. While this approach represents a shift in thinking, it is inevitable to meet today's organizational challenges. While no framework could provide all the answers, I believe that every organization can significantly improve its business results and achieve more home runs from their projects if they consciously apply the adaptive project management framework.

Old vs. new

One final word: I do not suggest eliminating the traditional approach. Many elements of traditional project management continue to be useful; yet, the overall approach will be augmented. As established by the conventional approach, each project must have a work breakdown structure, a schedule, a budget, an organization and a process. All those are necessary building blocks for well-organized successful projects. These building blocks will only form the baseline to leading the project in a flexible way. Not only do project managers have to monitor and review the progress of projects, but they must periodically examine the need for the product and the customer's position. Are the initial assumptions still valid? And if not, what adjustments have to be made to the project in order to guarantee better success?

Furthermore, in many projects it is impossible to build a clear and detailed plan. The uncertainty involved is simply too high to enable creating a clear project plan with all its bells and whistles. Instead, companies must initiate pilot programs, namely, small-scale efforts that will help remove some of the unknowns before the company can commit to the major large effort. In other situations, managers must create product prototypes that will be tested by customers before the final product requirements are set and determined.

In sum, modern projects involve a great deal of uncertainty and complexity as well as other constraints such as time, political pressures, economical risks, and many others. Each project is unique and has to be managed in its own way that best fits its unique characteristics, risk and complexity.

Only after companies learn how to manage projects in an adaptive and flexible way, will projects become the powerful competitive assets that they can be. 💠

Modern projects involve a great deal of uncertainty and complexity.





"THE IRS SAYS THE GOVERNMENT CAN'T SURVIVE ON MY INCOME AND THAT I SHOULD GET A SECOND JOB."