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# PROJECT MANAGEMENT ACCOUNTING

Budgeting, Tracking, and Reporting  
Costs and Profitability

SECOND EDITION

KEVIN R. CALLAHAN  
GARY S. STETZ • LYNNE M. BROOKS



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**LYNNE M. BROOKS**



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To my wife, Angela, and my son, Gary

To Jim, for planting the first seed

To Tracy and Susan, for their love  
and generosity of spirit



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# Preface

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Over the last few decades project management has moved from its roots in industries such as construction and defense into the mainstream of American business. Many different industries, in particular the service sector, rely heavily on Project Management as an integral part of a successful strategy. In support of the widening importance of project management, a number of important professional organizations, such as the Project Management Institute, have been created and are thriving in the twenty-first century.

As project management has been recognized as a valid career path that many have chosen to pursue, many training programs have been developed, and it is now possible to pursue both undergraduate and graduate degrees in project management. Project managers who practice the profession today come from a myriad of backgrounds, most often having started as specialists in an area of expertise and gradually moving into project management. And there lies the rub!

In our previous book, *The Essentials of Strategic Project Management*, we established the primary link between a company's mission, objectives, and operations. Senior project managers who wish to remain at the top of their profession need to understand not only the methodology, tools, and techniques of the profession in order to be successful, but they must also understand the business context within which they work. Many, if not most, project managers come from areas of expertise outside of business, and most do not have the formal education in business, accounting, or finance required to take their skills to the higher level.

Project management accounting is much more than considering how project income and expense impact the general ledger. The topic encompasses traditional accounting, cost accounting, budgeting, financing, cash flow, and earned value along with the more quantitative subjects. Project management accounting also includes such areas as strategy and executive decision making, portfolio management, and the more traditional phases of project management.

*Project Management Accounting: Budgeting, Tracking, and Reporting Costs and Profitability* is meant to improve the business skills of project managers. The volume contains the basics of project management accounting and finance, including insights into cost accounting, budgeting, and tracking project profitability. Most important, it provides project managers with a foundation of knowledge about the basics of business practices necessary to apply new skills to projects that they manage.

Chapter 1 is an overview of Project Management as it relates to a company's Mission, Objectives, and Strategy. Chapter 1 also points the reader toward particular topics of accounting and finance as they relate to project management. Chapters 2 and 3 are two parts of an introduction to the business basics; the former contains important foundational knowledge and the latter a case study that illustrates how to analyze a company's financial information in order to choose the right project and understand how to apply proper accounting principals to a project. Chapters 4 through 6 contain fundamental information on different areas of accounting and financial expertise, such as cost accounting and budgeting. Chapter 7 contains a comprehensive case study that illustrates how to develop a project budget based on a company's financial performance and needs. The case study integrates the knowledge, skills, and techniques of the previous chapters.

The second edition of *Project Management Accounting: Budgeting, Tracking and Reporting Costs and Profitability* includes a new chapter that will increase a project manager's skills in the area of risk management. The new chapter expands a project manager's knowledge base

by introducing risk assessment from an accounting and auditing point of view. Chapter 8 will introduce project managers to a different professional approach, enhancing their knowledge of the business environment.

We hope that you will find this book useful in your quest to become a top-performing project management professional.

KEVIN CALLAHAN

GARY STETZ

LYNNE BROOKS



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We would like to thank Vince Malina, George Beardsley, and Catherine Callahan for proofreading and correcting our manuscript.

We would also like to correct an error from our previous book, *The Essentials of Strategic Project Management*. During the production of that book, we had an excellent intern, Erin Ellis. Unfortunately, Erin was not properly identified, and we wish to correct that here and thank her for the hard work and professionalism that she applied to the project.

K. C.  
G. S.  
L. B.

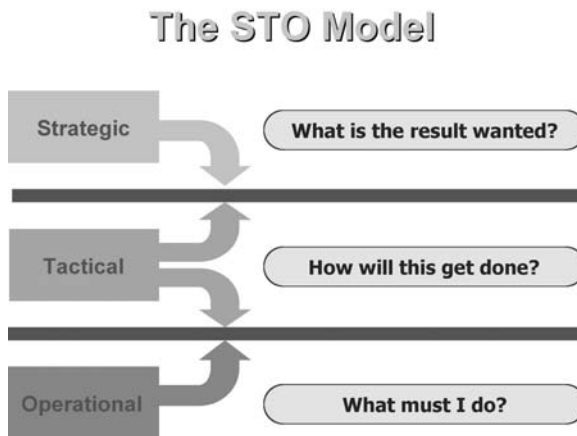


## Project Management and Accounting

In today's business world, we often hear the terms "strategic alignment" and "mission and objectives." Usually these terms are used in phrases such as: "We must ensure that our business units are strategically aligned with our mission and objectives." In many companies, large and small, it often seems that one area of a company does not know what is happening in other areas; in some cases, one area may even be working against other areas within the same company. Quite often there is a large gap between what the top levels of the organization are saying and what is happening at an operations level within the company.

In our last book, *The Essentials of Strategic Project Management*, we spoke about the STO model.<sup>1</sup> STO stands for strategic, tactical, and operational. These three levels of operation inherently have typical communication problems that many companies need to deal with (see Exhibit 1.1). Each level of the model represents a different level of a company. Strategic is the executive level, where decisions are made about the purpose and direction of the organization. Tactical is the management level of a company, where decisions are made as to how to carry out strategy. Operational is the lowest level of the company, and represents where people actually execute the work.

## EXHIBIT 1.1 Strategic, Tactical, and Operational Model



### Mission, Objectives, Strategy

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In order to have a clearer understanding of what Mission, Objectives, and Strategy mean, we need to look at some definitions and examples. Mission, first of all, is a statement of the purpose for the company's existence. An example of a simple mission statement could be General Electric's: "We bring good things to life." It is simple and easy to understand. Honeywell's mission statement is quite eloquent in its simplicity: "We are building a world that's safer and more secure, more comfortable and energy efficient, more innovative and productive."

In each case, the company's reason for existence is stated clearly and simply, giving direction to all that the company does. The reality is, however, that carrying out that mission is usually much more complex than a simple statement. Problems arise when management is not able to turn a mission statement into action and employees do not understand how their work carries that statement forward. That situation is where mission is often confused with strategy.

Strategy consists of a series of concrete actions that a company performs in order to carry out the mission. Each concrete action is

an Objective. The actions must support the mission of the company but must also adhere to good business principles. One of the fundamental responsibilities of a company is to create a return for its owners, whether they are a small group of investors or a large group of stockholders. There is always the responsibility to do this in an ethical manner, so that carrying out the mission and creating value are dual fundamental principles of any business. Even a not-for-profit company must create value; without the money, there is no mission.

An example of a Strategy that might correspond to Honeywell's Mission Statement might be to create a new line of home heating furnaces that are highly efficient and cut down on the amount of heating oil that is used to maintain the home's temperature. An Objective for that Strategy would be to carry out research into new technology for heating oil burners that are more efficient.

Problems arise in many companies when the mission is not understood at all levels, which brings us back to the STO model. When communication does not exist between the different levels of a company, mission cannot be translated into strategy and cannot be carried out by employees. Often the walls between levels exist, as illustrated in the STO model, not because of purposeful action or a desire to harm the company, but simply because no one at the firm has tried to bridge the gap or because someone has tried and failed.

As mentioned in the preface, senior project managers have their roots in many different areas of expertise, but the great majority do not come out of finance or accounting. At the same time, in order to advance within an organization, project managers need to acquire knowledge beyond their areas of expertise. The first step toward advancement is to become proficient in project management knowledge and skills in order to have the flexibility to move beyond those areas of expertise.

After becoming a proficient project manager, continued experience in project management helps project managers attain senior

status. After years of managing larger and more complex projects, senior project managers often aspire to making greater contributions to their organizations. One way to do this is by gaining expertise in finance and accounting, thereby enabling them to view the organization from a different perspective and to make a greater contribution to it.

In this chapter, we review the project management phases from the perspectives of various project management deliverables and processes with an eye to related finance and accounting issues. This review serves as an introduction to how finance and accounting is related to project management and can serve to help an organization perform projects in a manner that supports sound financial and accounting management. As we review each project management phase, we discuss the questions for finance and accounting implied in that phase and indicate which chapter in this book contains pertinent information.

## Information Collection

Information collection is a crucial element in project management, finance, and accounting. Collecting the correct information is crucial for project success. We conduct our review of the project management phases according to the project management documents that are created during each phase of a project:

- Initiation: Project charter
- Planning: Work breakdown structure, project schedule, project budget and cash flow, resource plan, procurement plan, quality plan, risk response plan

If the project is for an external client, there may be a request for proposal and corresponding proposal and a contract or some other agreement for services.

- Project Execution and Control: Status reports and dashboards.