Information Technology Project Management – Fifth Edition

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Measurable Organizational Value and the Business Case

Chapter 3

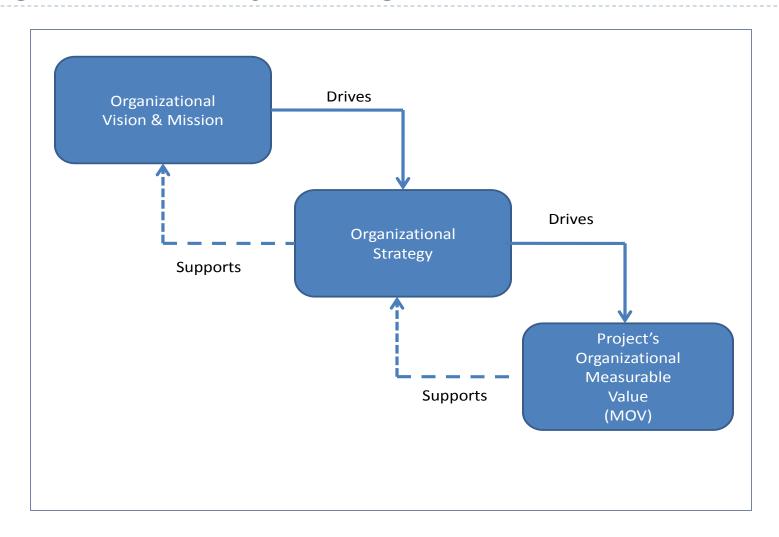
Chapter Objectives

- Describe and develop a project's MOV.
- Understand the purpose of a business case.
- Prepare a business case.
- Distinguish between financial and scoring models.
- Understand how projects are selected.

Measurable Organizational Value (MOV) and Project Objectives

- ▶ The MOV is a "Measure of Success"
- The MOV must support the organization's vision, mission, and strategy
- ▶ Also, the MOV must:
 - Be measurable
 - Provide value
 - Be agreed upon
 - Be verifiable
- ▶ Project Objectives support the MOV and include:
 - Scope (the project work to be completed
 - Schedule (time)
 - Budget (money)
 - Quality (conformance or fitness for use)

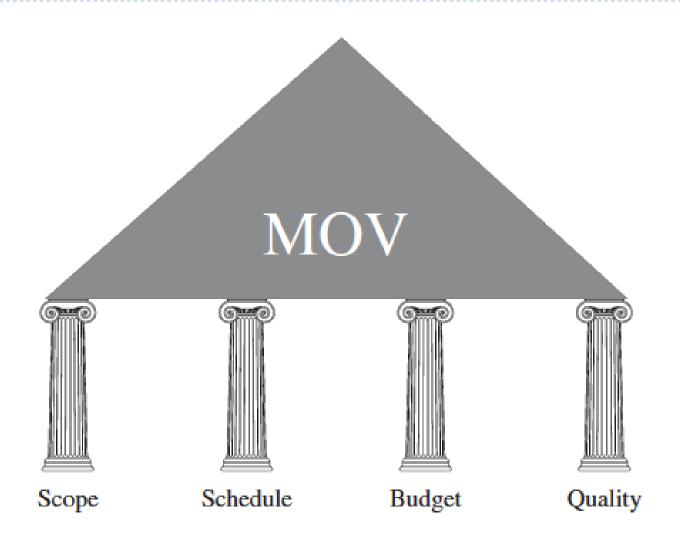
Figure 3.1 – Project Alignment



Project Objectives

- ▶ Project Objectives support the MOV and include:
 - Scope (the project work to be completed
 - Schedule (time)
 - Budget (money)
 - Quality (conformance or fitness for use)

Figure 3.2 – The MOV and Project Objectives



An Example of a Good Goal

I believe that this nation should commit itself to achieving the goal before this decade is out, of landing a man on the moon and returning him safely to Earth.

John F. Kennedy 35th President of the United States 1961-1963

1. Identify the desired area of impact

Potential Areas:

- Customer
- Strategic
- Financial
- Operational
- Social

Figure 3-3 – Potential Areas of Project Impact and Examples

Customer

- New products or services
- Better quality products or services
- Lower priced products or services

Strategic

- · New markets
- Increased market share
- Changing the terms of competition

Financial

- Increased revenue
- Lower costs

Operational

- More efficient processes
- More effective processes

Social

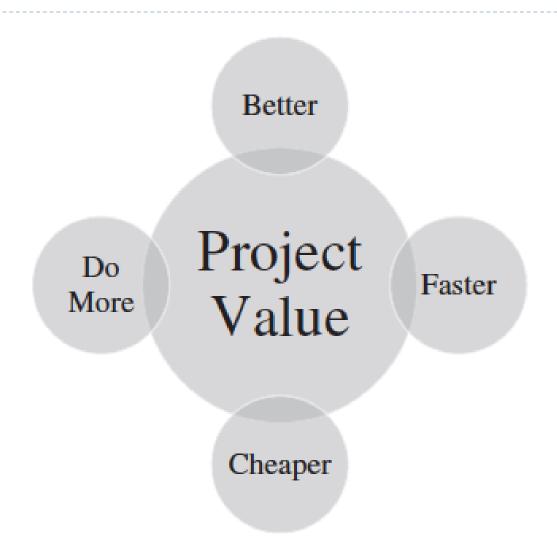
- Dissemination of knowledge
- Improved safety
- Cleaner environment

2. Identify the desired value of the IT project

Organizational Value:

- Better?
- Faster?
- Cheaper?
- Do More? (growth)

Figure 3-4 – Project Value



3. Develop an Appropriate Metric

- Provides the project team with a performance target or directive
- Sets expectations among all stakeholders
- Affords a means for evaluating whether the project is a success
- Metrics are expressed in ...
 - \square Money (\$, £, ¥ increase or decrease)
 - □ Percentage (% increase or decrease)
 - □ Numeric Values (increase or decrease)

- 4. Set a time frame for achieving the MOV
 - When will these results (the MOV) be achieved?
- 5. Verify the MOV and get agreement from the project stakeholders
 - Project manager's responsibility is to guide the process, while the project sponsor must identify and specify the metrics and the acceptable values for the metrics

6. Summarize the MOV in a clear, concise statement or table

This project will be successful if _____

MOV: Increase awareness for healthy living by having 250 new subscribers sign up for a weekly newsletter within 6 months.

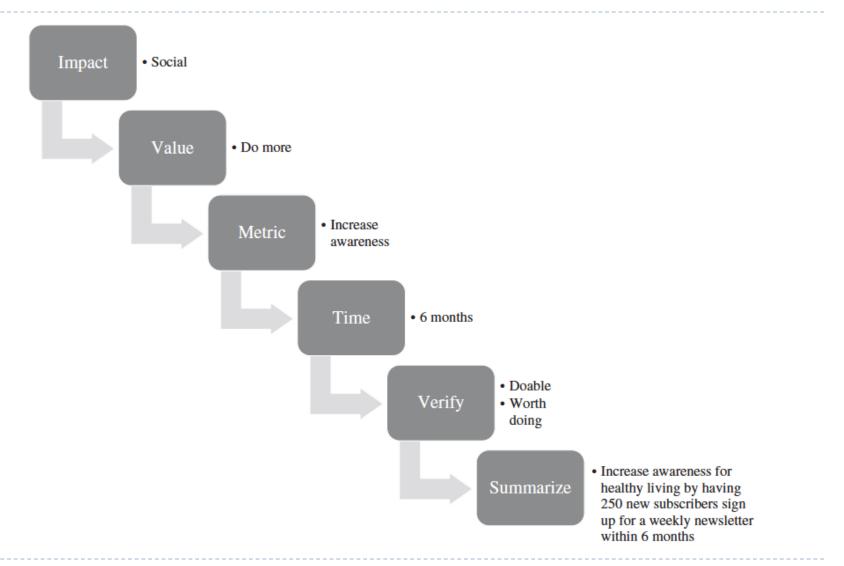
Table 3-1 – Examples of MOV Statements

Area of Impact	The project will be successful if
Customer	Within 3 months 65 percent of our customers will visit our restaurant at least once a week.
Strategic	We will develop and manufacture a new router that sells for \$50 less than our competitor's model by April 1 of next year.
Financial	Sales growth of our smartphone app increases from 3 percent to 6 percent by the end of next quarter.
Operational Social	Our inventory turnover ratio improves 15 percent by the end of our fiscal year. The number of accidents in our plant is reduced to zero next year.

Table 3-2 – Examples of MOV Table Format

Time Period	MOV
6 months	250 new healthy living newsletter subscribers
1 year	600 new healthy living newsletter subscribers
2 years	1,000 new healthy living newsletter subscribers

Figure 3-5 – Summary of the Process for Developing MOV to Increase Awareness for Healthy Living



The Business Case

- Definition of Business Case: an analysis of the organizational value, feasibility, costs, benefits, and risks of several proposed alternatives or options.
- Attributes of a Good Business Case
 - ▶ Thorough in detailing all possible impacts, costs, and benefits
 - Clear and logical in comparing the cost/benefit impact of each alternative
 - Objective through including all pertinent information
 - Systematic in terms of summarizing findings

- Step 1: Define Measurable Organizational Value (MOV)
- ▶ Step 2: Form a Cross-Functional Business Case Team
- Advantages:
 - Credibility
 - Alignment with organizational goals
 - Access to the real costs
 - Ownership
 - Agreement
 - Bridge building

- Step 3: Identify Alternatives
 - Possible Options
 - Change existing process without investing in IT
 - Adopting or adapting an application developed by a different area or department within the organization
 - Reengineer the existing system
 - Purchasing an off-the-shelf application package from a software vendor
 - Custom building a new application using internal resources or outsourcing the development to another company

- ▶ Step 4: Define Feasibility and Assess Risk
 - ▶ Feasibility ("do able and worth doing?")
 - Economic feasibility
 - Technical feasibility
 - Organizational feasibility
 - Other feasibilities
 - Risk
 - ▶ Identification What can go wrong? What must go right?
 - ▶ Assessment What is the impact of each risk?
 - ▶ Response How can the organization avoid or minimize the risk?

- Step 5: Define Total Cost of Ownership
 - Direct or Up-front costs
 - Ongoing Costs
 - Indirect Costs
- Step 6: Define Total Benefits of Ownership
 - Increasing high-value work
 - Improving accuracy and efficiency
 - Improving decision-making
 - Improving customer service

- ▶ Step 7: Analyze alternatives
 - Payback

```
= $100,000
$20,000
= 5 years
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Breakeven

Materials (putter head, shaft, grip, etc.)	\$12.00
Labor (0.5 hours at \$9.00/hr)	\$ 4.50
Overhead (rent, insurance, utilities, taxes, etc.)	\$ 8.50
Total	\$25.00

If you sell a golf putter for \$30.00 and it costs \$25.00 to make, you have a profit margin of \$5.00:

Breakeven Point = Initial Investment / Net Profit Margin

- = \$100,000 / \$5.00
- = 20,000 units

Return on Investment

$$= \frac{(\$115,000 - \$100,000)}{\$100,000}$$
$$= 15\%$$

Net Present Value

	Year 0	Year 1	Year 2	Year 3	Year 4
Total Cash Inflows	\$0	\$150,000	\$200,000	\$250,000	\$300,000
Total Cash Outflows	\$200,000	\$85,000	\$125,000	\$150,000	\$200,000
Net Cash Flow	(\$200,000)	\$65,000	\$75,000	\$100,000	\$100,000

NPV = $-I_0 + \Sigma$ (Net Cash Flow / $(1 + r)^t$)

Where:

I = Total Cost or Investment of the Project r = discount ratet = time period

Net Present Value

Time Period	Calculation	Discounted Cash Flow	
Year 0	(\$200,000)	(\$200,000)	
Year 1	\$65,000/(1 + .08)1	\$60,185	
Year 2	$$75,000/(1+.08)^2$	\$64,300	
Year 3	$$100,000/(1+.08)^3$	\$79,383	
Year 4	$$100,000/(1+.08)^4$	\$73,503	
Net Present	\$77,371		

Scoring models

- provide a method for comparing alternatives or projects based on a weighted score.
- > can combine both qualitative and quantitative criteria
- weights and scores can be subjective

▶ Things to keep in mind about financial and scoring models

- Financial models can be biased toward the short run
- Some criteria are reversed-scored
- Past experience may help create a more realistic business case.

Table 3.3 – Comparison of Project Alternatives

Criterion		Weight	Alternative A	Alternative B	Alternative C
Financial	ROI	15%	2	4	10
	Payback	10%	3	5	10
	NPV	15%	2	4	10
Strategic	Alignment with strategic objectives	10%	3	5	8
	Increased market share	10%	2	5	8
Organizational	Likelihood of achieving project's MOV	10%	2	6	9
	Availability of skilled team members	5%	5	5	4
Project	Cost	5%	4	6	7
	Time to develop	5%	5	7	6
	Risk	5%	3	5	5
Customer	Customer satisfaction	10%	2	4	9
Total Score		100%	2.65	4.85	8.50

Note: Risk scores have a reverse scale—that is, higher scores for risk imply lower levels of risk.

- ▶ Step 8: Propose and Support the Recommendation
 - Once the alternatives are identified and analyzed, the last step is to recommend one of the options.

Figure 3.6 – Business Case Template

The following provides a suggested outline for developing and writing a business case:

Cover Page

- Title and subtitle
- Author and address
- Date

Executive Summary

- Brief description of the problem or opportunity
- Brief description of organization's goal and strategy
- Brief description of project's MOV and how it ties to the organizational goal and strategy
- Brief description of each option or alternative analyzed
- Brief explanation of which alternative is being recommended and why

Introduction

- Background
- Current situation
- Description of the problem or opportunity
- Project's measurable organizational value

- How achieving the project's MOV will support the organization's goal and strategy
- Objectives of writing this business case

Alternatives

- Description of alternative 1 (Base Case)
- Description of alternative 2 ...
- Description of alternative N

Analysis of Alternatives

- Methodology of how alternatives will be analyzed
 - Data collection methods
 - Metrics used and explanation why they are relevant
- Presentation of results that compares each alternative
 - Metrics
 - Sensitivity analysis
 - Risks
 - Assumptions
- Proposed recommendation

Project Selection and Approval

▶ The IT Project Selection Process

▶ The Project Selection Decision

- The project must align with the organization's values, vision, mission, and strategies.
- The project must provide MOV that can be verified at the completion of the project.