Information Technology Investment: Decision Making Methodology

Chapter 1

Introduction to Information Technology Investment Decision-Making

I. Introduction

The productivity paradox: The relationship between spending (IT) and its resulting contributions profitability.

A statements that is seemingly contradictory or opposed to common sense and yet is true

There needs to be a way to show this relationship to justify the investment!







I. Introduction

Robert Solow felt...

Level of Analysis

Economy: negative??

Industry: mixed??

Firm: positive??

Other researchers have een surprised...

Several other researchers have



No single methodology that'll give a consistent IT investment solution

II. Types of IT Investment Decision-Making Problems

Complexity in even the simplest of IT decision-making problems can offer challenge to managers.

Need to show that IT investment returns "perceived value" to the firm



2. Prim fea



SMALL BUSINESS PRICING STRATEGIES:

CUSTOMER PERCEIVED VALUE





benefits

-



total perceived costs



customer perceived value

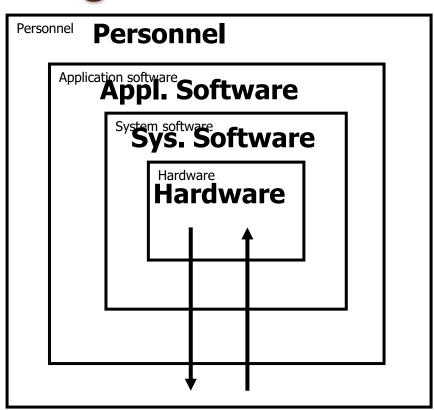
II. Types of IT Investment Decision-Making Problems

IT investment decision-making problems:

- What are the most appropriate quantitative methods and techniques for the evaluation of IT?
- What quantitative and qualitative measures can be used in the assessment and evaluate IT investments?
- How can we objectively render an IT decision when we use highly complex, multiple and conflicting criteria?
- How do we choose the best alternative from a set of alternative IT projects?
- How can we justify our IT decisions?

III. What are IT Investment DecisionMaking Methodologies?

- as the investment decisions of allocating all types (i.e., human, monetary, physical) of resources to an IS
- tangible vs. intangible
- quantitative and qualitative
- Various methodologies in Table 2.



Information System

IV. Why Study IT Investment and Decision-Making Methodologies

Means of achieving competitive advantage

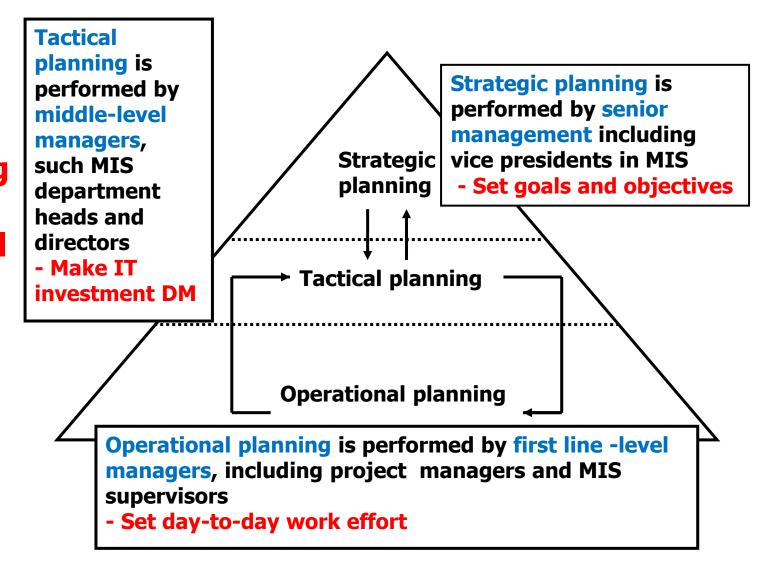
By helping stakeholders (stockholders + partnering companies) perform their biz functions much better Multiply the efficiency and productivities of one firm over another

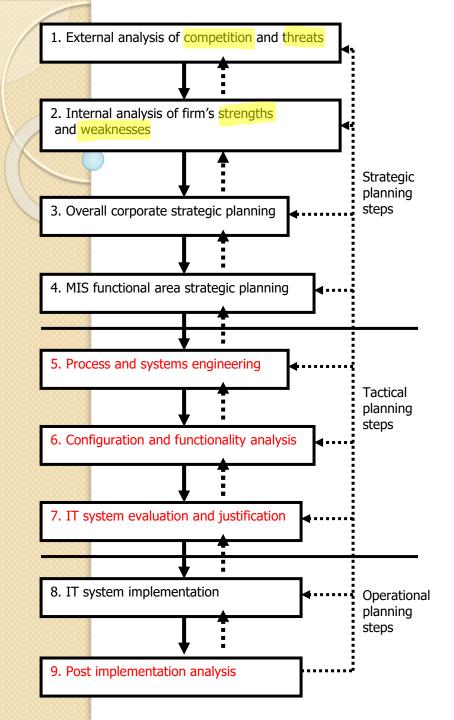
Poor investments can be a competitive disadvantage

By increasing costs, delaying orders, disrupting communications, and decreasing employee morale

V. Organizational Strategic Planning in IT Investment Decision-Making

All planning follows a hierarchical planning process of stages





V. Organizational Strategic Planning in IT Investment Decision-Making

This figure details the IS hierarchical planning of IT systems

Our focus is mainly on the Tactical Steps and particularly Step 5, 6, 7, and 9

V. Organizational Strategic Planning in IT Investment Decision-Making

All organization planning begins at the top:

Strategic Plan For Organization-wide

Growth in sales

Strategic Nar Graph Information systems
For IT capability to handle growth in sales

Tactical Plan For IT

Operational Plan For IT

Purchase new information systems to increase sales growth capability

Make the new information systems work to actually handle new sales