

ERP Course: Managing an ERP Projects Readings: Chapter 8 from Mary Sumner.

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Product Perspective – an extreme case

ERP is a product

We need such a product to manage our company

Why don't we look at the ERP as if we would order a material for our production ????? ;)

Why don't we download it from microsoft office web site ?????;)Hmmm, we have an IT administrator and we heart he programs in VB. Why don't we give it to him to program it ?????;)

=> We are beyond that stage already and there is a lot literature documenting ERP implementation projects



ERP Projects

They often represent the single largest investment Complexity in functions Complexity in projects Complexity in technology

Need for management



Some Cases 😕

FoxMeyer Corporation – SAP

• Helped drive it into bancrupcy

- W.W Grainer Inc. SAP
 - Spent \$9 milion on SAP
- During worst months lost \$19mil \$23 mil in profit Hershey Foods Corp – SAP, impl. led by IBM
 - 12% fell in sales in the first quater after system was alive



Statistics on ERP Vendors Implementation

SAP/R3 65.3% J.D. Edwards 12.9% Oracle 8.9%

Firms felt that they achieved 65% of the business case targets
70% of firms felt that implementation was successful
55.5% pointed that the actual costs exceeded budget by an avarage of 60.6% (actually the range was -10% to 200%)



Additional findings

Under- or on-budget projects made fewer modifications Modifications contribute to a 50% increase in project duration Under- or on-budget projects established established greater authority of implementation

- Under- or on-budget projects established more effective communications
- Under- or on-budget firms manage their business better and managed their ERP implementation better



Some questions

What technology challenges are encountered in implementing enterprise-wide information management system?
What organizational challanges are addressed?
What people challanges are encountered?
What challanges are associated with size and project scope?
What are the strategies for minimizing the risks associated with the technology, organization, people, size/scope?



Causes of Project Failures

Resource failures

- Conflicts of people, time and project scope due to insufficient personnel
- Incorrect systems with poor reliability, difficult to maintain, dissatisfied users

Requirement failures

- Poor specification of requirements
- Developing the wrong system with many changes

Goal failures

- Inadequate statement of goal from management
- Developing wrong system, leads to requirements failures



Causes of Project Failures

Technique failures

- Wrong software development approaches
- Inadequate req. spec., poor reliability, high maintanance costs, scheduling and budget problems

User contact failures

- Inability to communicate with the system users
- Inadequate req., poor preparation for accepting and using Organizational failures
 - Poor org. structure, lack of leadership, accessive span of control
 - Poor coordination of tasks, schedule delays, inconsistent quality



Causes of Project Failures

People management failures

- Lack of effort, antagonistic behaviour, stifled creativity
- Time delays, budget overruns, poor specs., maintanance problems

Methodology failures

• Unnecessary activities performed while the necessary once are omited

• . . .



Causes of Project Failures

Technology failures

- Hardware/Software does not meet spec., failure of the vendor to deliver on time, unreliable products
- Schedule delays, poor reliability, maintanace problems, dissatisfied users

Size failures

- Too large project, capabilities pushed beyond the level
- Insufficient resources, inadequate requirements, simplistic project control, poor use of methodology



Causes of Project Failures

Planning and control failures

- Vague assignments, inadequate tools for PM and tracking
- Work assignements overlap or missing, deliverables poorly defined, poor communication

Personality failures

- People clashes
- Passive cooperation and covert resistance, vengeance



Key Factors to Have in Mind

To deliver:

- On time
- Within budget
- Reliable System
- Maintanable System
- Meet goals
- Meet Requirements



To evaluate

Rules Players Goals Constraints



Risks Categories

Technology risks Organizational risks Risks in people Risks in project size



Technology risks

Technology fit

- system consistent with current technology infrastructure poses lower risk
- System which require major changes in technology infrastructure means higher risk

Fit with technological expertise

- Tech. Requirements are consistent with technical expertise

 lower risk
- Not consistent with tech. Expertise bigger risk



Organizational risks

Business process re-design

• Extensive re-design of business process – in the book it says lower risk, but it depends where you book the costs on the re-design ;)

Major changes and customization – higher risk
 Scope of business processes

- Scope of project afects 0-25% of business processes lower risk
- Scope of project affects 50-100% of business processes higher risk



Risk in people

Knowledge of IT staff

- Knowledgable in app. Specific modules lower risk
- Limited knowledge higher risk

Knowledge of User staff

- Fully involved in the project lower risk
- Limited involvment in the project higher risk



Risk Categories and Factors

Organizational fit

- Failure to redesign business processes
- Failure to follow an enterprise-wide design with data integration

Skill set

- Insufficient training and re-skilling
- Insufficient internal expertise
- Lack of business analyst with business and technology knowledge
- Failure to mix internal and external expertise
- Failure to retain or recruit qualified ERP systems developers



Risk Categories and Factors

Management Strategy

- Lack of senior management support
- Lack of proper management control structure
- Lack of champion
- Ineffective communication

Software design

- Failure to adhere to standard specifications which the software supports
- Lack of integration



Risk Categories and Factors

User involvment and training

- Insufficient training of end-users
- Ineffective communication
- Lack of full time commitment to project
- Failure to emphasize reporting

Technology planning/integration

- Inability to avoid technological bottleneck
- Attempting to build bridges to legacy applications



Risk Categories and Factors

Organizational fit

- Commitment to redesign business processes
- Tomp management commitment to restructure and follow an enterprise-wide design with data integration

Skill mix

- Effective recruiting and retaining specialized technical personnel
- Effective reskilling of existing IT workforce
- Obtaining business analyst with knowledge about application specific modules
- Effective use of external consultants on project teams



Risk Categories and Factors

Management Structure and Strategy

- Obtaining top management support
- Establishing a centralized project management structure
- Assigning a champion

Software design

- Commitment to using project management methodology and best practices specified by vendor
- Adherence with software specification



Risk Categories and Factors

User involvment and training

- Effective user training
- Full time commintment of users to project
- Effective communication

Technology planning/integration

- Acquiring technical expertise
- Acquiring vendor support for capacity planning and upgrading
- Proper planning for an architecture which was decided