Case Study for Information Management

Managing Projects: NYCAPS and CityTime (Chap. 14)

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http://mail.tku.edu.tw/myday/
2015/12/22, 24
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Chap. 14
Managing Projects:
NYCAPS and CityTime
Case Study: Managing Projects:
NYCAPS and CityTime  (Chap. 14) (pp. 586-588)

A Tale of Two New York City IS Projects

1. How important were the NYCAPS and CityTime projects for New York City? What were their objectives? What would have been their business benefits?

2. Evaluate the key risk factors in both projects.

3. Classify and describe the problems each project encountered as the NYCAPS and CityTime systems were being implemented. What management, organization, and technology factors were responsible for these problems?

4. What were the similarities and differences in the management of both projects?

5. What was the business impact of these botched implementations? Explain your answer.

6. Describe the steps that should have been taken to prevent negative outcomes in these projects.

Overview of Fundamental MIS Concepts

Business Challenges

Management
Organization
Technology

Information System

Business Solutions

The Importance of Project Management

- Runaway projects and system failure
- Runaway projects: 30%–40% IT projects
  - Exceed schedule, budget
  - Fail to perform as specified
- Types of system failure
  - Fail to capture essential business requirements
  - Fail to provide organizational benefits
  - Complicated, poorly organized user interface
  - Inaccurate or inconsistent data

The Importance of Project Management

Consequences of Poor Project Management

- Cost overruns
- Time slippage
- Technical shortfalls impairing performance
- Failure to obtain anticipated benefits

Project Management (PM)

• Activities include
  – planning work,
  – assessing risk,
  – estimating resources required,
  – organizing the work,
  – assigning tasks,
  – controlling project execution,
  – reporting progress,
  – analyzing results.

Five Major Variables of Project Management

1. Scope
2. Time
3. Cost
4. Quality
5. Risk

Selecting Projects

• Management structure for information systems projects
  – Hierarchy in large firms
    • Corporate strategic planning group
      – Responsible for firm’s strategic plan
    • Information systems steering committee
      – Reviews and approves plans for systems in all divisions
    • Project management group
      – Responsible for overseeing specific projects
    • Project team
      – Responsible for individual systems project

Management Control of Systems Projects

Linking Systems Projects to the Business Plan

• Information Systems Plan
  – Identifies systems projects that will deliver most business value, links development to business plan
  – Road map indicating direction of systems development, includes:
    • Purpose of plan
    • Strategic business plan rationale
    • Current systems/situation
    • New developments to consider
    • Management strategy
    • Implementation plan
    • Budget

Developing Information Systems Plan

• In order to plan effectively, firms need to inventory and document existing software, hardware, systems
• To develop effective information systems plan, organization must have clear understanding of both long-term and short-term information requirements
• **Strategic analysis or critical success factors (CSF) approach**
  – Sees information requirements as determined by a small number of critical success factors
  – Auto industry CSFs might include styling, quality, cost

Information Requirements and Key Performance Indicators (KPIs)

• For effective plan
  – Inventory and document
    • Existing systems and components
    • Decision-making improvements
  – Metrics established for quantifying values
  – Clear understanding of long-term and short-term information requirements

• Key Performance Indicators (KPIs)
  – Strategic analysis identifies small number of KPIs, determined by managers
    • Production costs, labor costs, and so on

Portfolio Analysis

• Used to evaluate alternative system projects
• Inventories all of the organization’s information systems projects and assets
• Each system has profile of risk and benefit
  – High benefit, low risk
  – High benefit, high risk
  – Low benefit, low risk
  – Low benefit, high risk
• To improve return on portfolio, balance risk and return from systems investments

Critical Success Factors (CSFs)

• Principal method:
  – Interviews with 3-4 top managers to identify goals and resulting CSFs
  – Personal CSFs aggregated into small number of firm CSFs
  – Systems built to deliver information on CSFs

• Suitable for top management, building DSS and ESS

• Disadvantages:
  – No clear methods for aggregation of CSFs into firm CSFs
  – Confusion between individual and organizational CSFs
  – Bias towards top managers

Using CSFs to Develop Systems

Manager A CSFs
Manager B CSFs
Manager C CSFs
Manager D CSFs

Aggregate + analyze individual CSFs

Develop agreement on company CSFs

Define company CSFs

Define DSS and databases
Use CSFs to develop information systems priorities

A System Portfolio

Project Risk

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Cautiously examine

Potential Benefits to Firm

High

Low

Scoring Models

- Used to evaluate alternative system projects, especially when many criteria exist
- Assigns weights to various features of system and calculates weighted totals

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Establishing the Business Value of Information Systems

• Information system costs and benefits
  – Tangible benefits:
    • Can be quantified and assigned monetary value
    • Systems that displace labor and save space:
      – Transaction and clerical systems
  – Intangible benefits:
    • Cannot be immediately quantified but may lead to quantifiable gains in the long run
      – E.g., more efficient customer service, enhanced decision making
    • Systems that influence decision making:
      – ESS, DSS, collaborative work systems

Capital Budgeting for Information Systems

• Capital budgeting models:
  – Measure value of investing in long-term capital investment projects
  – Rely on measures the firm’s
    • Cash outflows
      – Expenditures for hardware, software, labor
    • Cash inflows
      – Increased sales
      – Reduced costs
  – There are various capital budgeting models used for IT projects: Payback method, accounting rate of return on investment, net present value, internal rate of return (IRR)

Real Options Pricing Models (ROPM)

- Can be used when future revenue streams of IT projects are uncertain and up-front costs are high.
- Use concept of options valuation borrowed from financial industry.
- Gives managers flexibility to stage IT investment or test the waters with small pilot projects or prototypes to gain more knowledge about risks before investing in entire implementation.

Limitations of Financial Models

• Do not take into account social and organizational dimensions that may affect costs and benefits

Managing Project Risk

• Dimensions of project risk
  – Level of project risk influenced by:
    • Project size
      – Indicated by cost, time, number of organizational units affected
      – Organizational complexity also an issue
    • Project structure
      – Structured, defined requirements run lower risk
    • Experience with technology

Change Management

• Required for successful system building
• New information systems have powerful behavioral and organizational impact
  – Changes in how information is used often lead to new distributions of authority and power
  – Internal organizational change breeds resistance and opposition

The Concept of Implementation

• Implementation
  – All organizational activities working toward adoption, management, and routinization of an innovation

• Change Agent: One role of Systems Analyst (SA)
  – Redefines the configurations, interactions, job activities, and power relationships of organizational groups
  – Catalyst for entire change process
  – Responsible for ensuring that all parties involved accept changes created by new system

The Role of End Users

• Role of end users
  – With high levels of user involvement
    • System more likely to conform to requirements
    • Users more likely to accept system

• User-designer communication gap:
  – Users and information systems specialists
    • Different backgrounds, interests, and priorities
    • Different loyalties, priorities, vocabularies
    • Different concerns regarding a new system

Management Support and Commitment

• The backing and commitment of management at various levels
  – Positive perception by both users and technical staff
  – Ensures sufficient funding and resources
  – Enforcement of required organizational changes

Change Management Challenges

• Very high failure rate among enterprise application and BPR projects (up to 70% for BPR)
  – Poor implementation and change management practices
    • Employee’s concerns about change
    • Resistance by key managers
    • Changing job functions, career paths, recruitment practices
• Mergers and acquisitions
  – Similarly high failure rate of integration projects
  – Merging of systems of two companies requires:
    • Considerable organizational change
    • Complex systems projects

Controlling Risk Factors

• First step in managing project risk involves identifying nature and level of risk of project
• Each project can then be managed with tools and risk-management approaches geared to level of risk
• Managing technical complexity
  – Internal integration tools
    • Project leaders with technical and administrative experience
    • Highly experienced team members
    • Frequent team meetings
    • Securing of technical experience outside firm if necessary

Formal Planning and Control Tools

- Used for documenting and monitoring project plans
- Help identify bottlenecks and impact of problems
- **Gantt charts**
  - Visual representation of timing and duration of tasks
  - Human resource requirements of tasks
- **PERT (Program Evaluation and Review Technique) charts**
  - Graphically depicts tasks and interrelationships
  - Indicate sequence of tasks necessary

### A Gantt Chart

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### A Gantt Chart

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A Pert Chart

Select Hosting Service

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Create Art Work

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Increasing User Involvement and Overcoming User Resistance

• **External integration tools** consist of ways to link work of implementation team to users at all organizational levels
  – Active involvement of users
  – Implementation team’s responsiveness to users

• User resistance to organizational change
  – Users may believe change is detrimental to their interests
  – **Counterimplementation**: Deliberate strategy to thwart implementation of an information system or an innovation in an organization
    • E.g., increased error rates, disruptions, turnover, sabotage

Strategies to Overcome User Resistance

- User participation
- User education and training
- Management edicts and policies
- Incentives for cooperation
- Improvement of end-user interface
- Resolution of organizational problems prior to introduction of new system

Designing for the Organization

• Information system projects must address ways in which organization changes with new system
  – Procedural changes
  – Job functions
  – Organizational structure
  – Power relationships
  – Work structure

• Ergonomics: Interaction of people and machines in work environment
  – Design of jobs
  – Health issues
  – End-user interfaces

Designing for the Organization

• Organizational impact analysis
  – How system will affect organizational structure, attitudes, decision making, operations

• Sociotechnical design
  – Addresses human and organizational issues
    • Separate sets of technical and social design solutions
    • Final design is solution that best meets both technical and social objectives

Project Management Software

- Can automate many aspects of project management
- Capabilities for:
  - Defining, ordering, editing tasks
  - Assigning resources to tasks
  - Tracking progress
- Microsoft Project 2010
  - Most widely used project management software
  - PERT, Gantt charts, critical path analysis
- Increase in SaaS, open-source software
- Project portfolio management software

2015/12/29, 31, 2016/01/05, 07
Final Report (期末報告)

• 請各組組長整理期末報告資料檔案，
於2015/12/29 (週二) 上午9:00前，
完成Email寄出以下兩個壓縮檔的下載連結 (Google Drive or Dropbox)，
給所有組員和老師 (正本to: 老師，副本cc:所有組員)。

– 1. 整組各次簡報的ppt (含整組期末報告目錄ppt) 壓縮檔
  • (例如：MI4C_資訊管理個案_第1組_學期各次簡報.zip)。

– 2. 整組各組員的
  [[(1) 個人期末報告.ppt
  (2) 個人整學期的書面報告.pdf
  (3) 個人學期總心得.doc]
  之壓縮檔
  • (例如：MI4C_資訊管理個案_第1組_組員個人期末報告.zip)。
資訊管理個案
(Case Study for Information Management)

1. 請同學於資訊管理個案討論前
   應詳細研讀個案，並思考個案研究問題。

2. 請同學於上課前複習相關資訊管理相關理論
   ，以作為個案分析及擬定管理對策的依據。

3. 請同學於上課前
   先繳交個案研究問題書面報告。
References


– Kenneth C. Laudon & Jane P. Laudon 原著，游張松 主編，陳文生 翻譯 (2014)，資訊管理系統，第13版，滄海