

Chapter 10

System Development

Steps in Development - #1

Problem Identification

- Which department(s) has(have) the problem?
- How significant is the problem
- What is the problem?
- Overview of potential system
- Should be developed by the end users, the business

Steps in Development - #2



- Legal?
- Required by law?
- Technology issues?
- Organizational issues?
- Economic Potential
 - IT projects should reduce costs or
 - IT projects should increase revenues or
 - Are necessary to run the business (telecommunications)

Steps in Development - #3



- Bring in all users
- Bring in all stakeholders
- Bring in IT Team
- Bring in all current reports/forms
- To recommend multiple options to management with a recommendation and return on investment on the best option
- All business majors involved in this step

Systems Analysis – Step 3 Continued

- The process of studying an existing system and identifying the weaknesses and inefficiencies that occur as a result of that system
 - 1. Summary of needs/problems
 - 2. Recommend Hardware
 - 3. Recommend Software
 - 4. Recommend People
 - 5. Recommend Communication Devices
 - 6. Training Procedures
 - 7. Maintenance Requirements

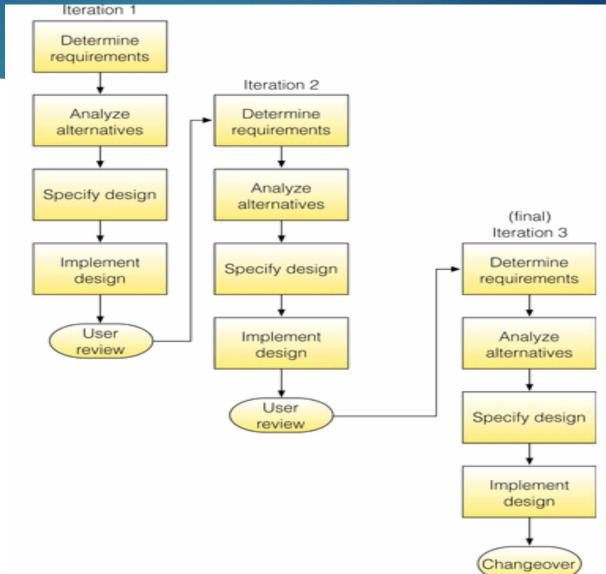
Recommendations for development





Involves IT and end users
Design the databases
"Story board" the screens
Determine

Use Prototypes to help in the design phase



Implementation

▶ Write the code (IT)





Use individuals outside the IT department



Conversion to new system

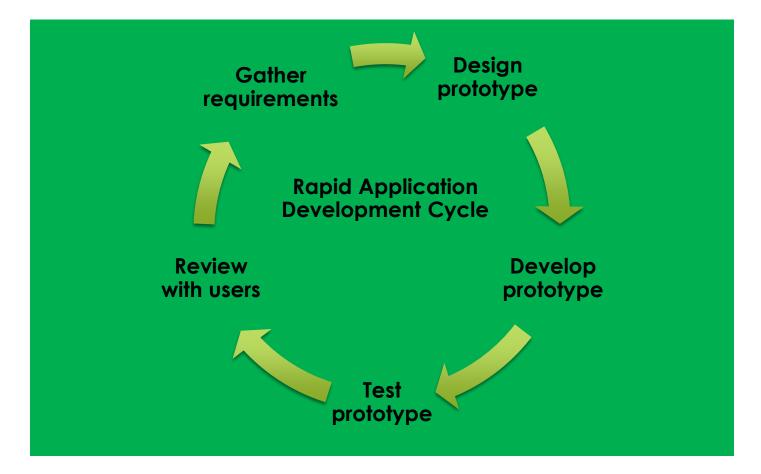
- Parallel Run both
- Phased Small segments of new system
- Cold Turkey



Changes to the system after 'live'

▶ Up to 30% of overall costs!

Rapid Application Development (RAD)



Outsourcing Models

- Full or complete outsourcing: outside company handles all IT functions so the organization can focus on its core activities
 - may reduce IT costs.
- Selective or partial outsourcing: only certain aspects of IT are outsourced to a service provider.

Process-based outsourcing: organization outsources a particular