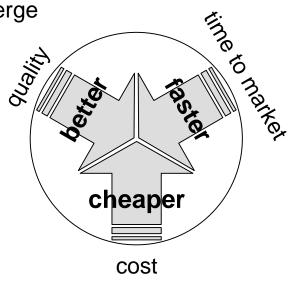


Business Engineering

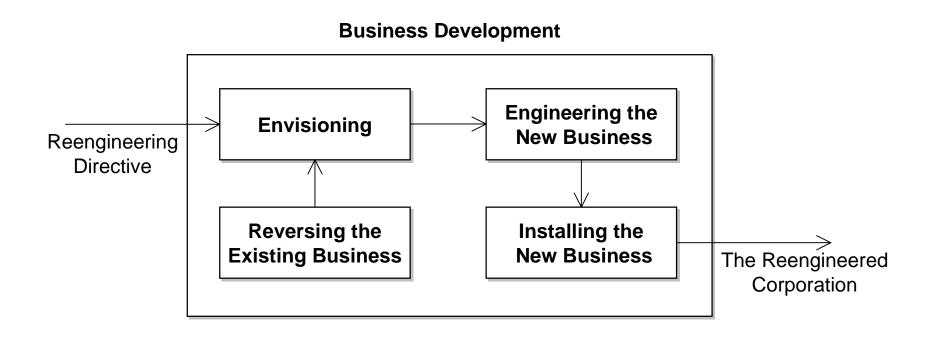
Feb 26, 2000 | v1.0/A1



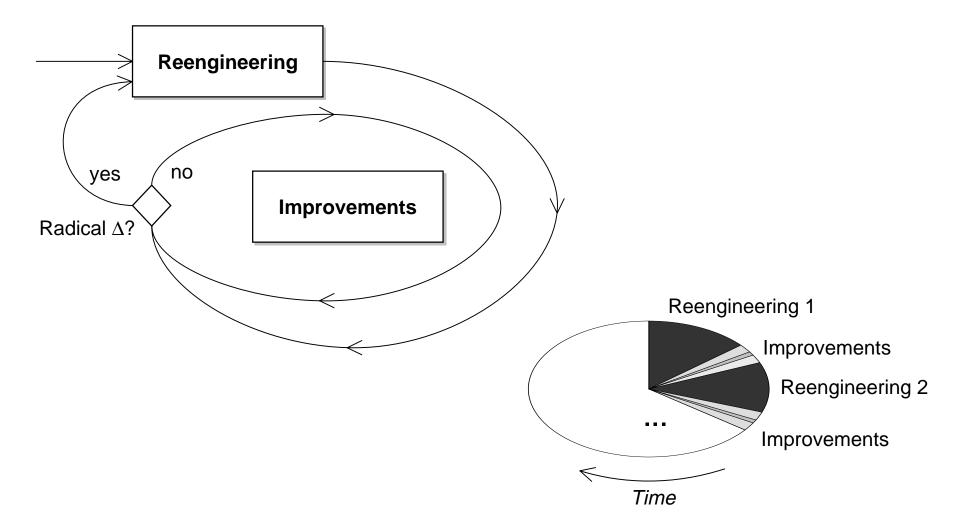
- □ Requirements for market success are changing
- □ Survive in a increasingly competitive market
- □ Business engineering = business reengineering + business improvements
- □ Using of the business modeling
- □ Information systems are part of the solution
- Development of business and supporting IS converge
- Migration from legacy system must be taken into account



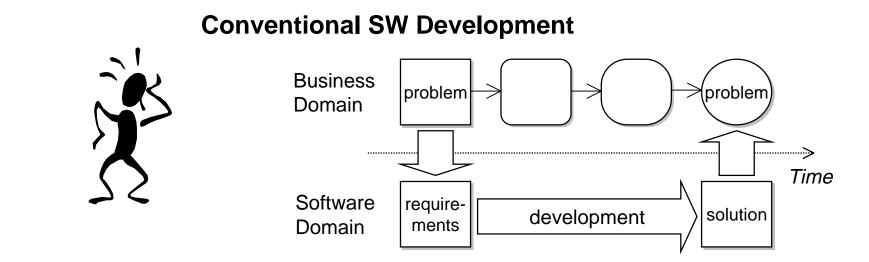




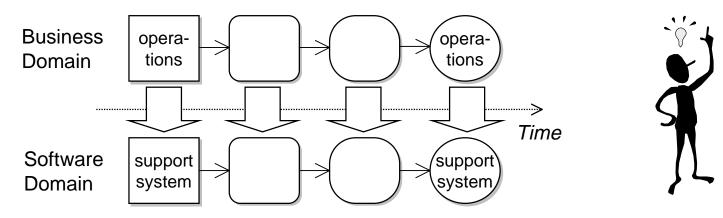








Adaptive SW Development

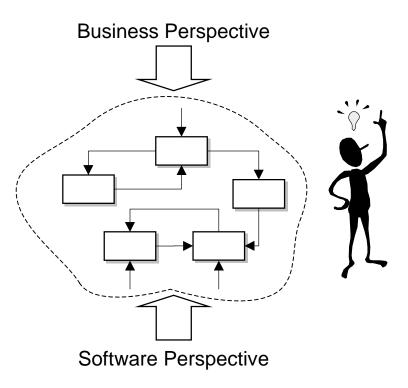




Divergent Models

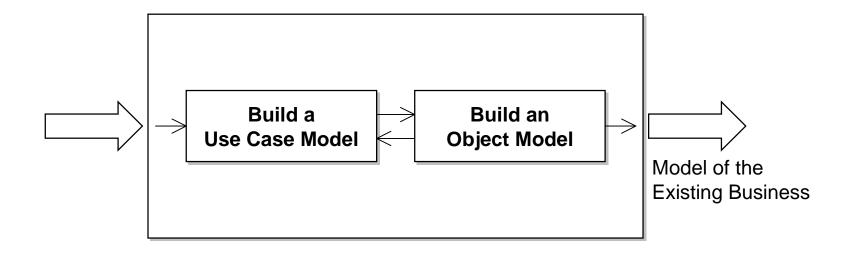
Business System

Convergent Model

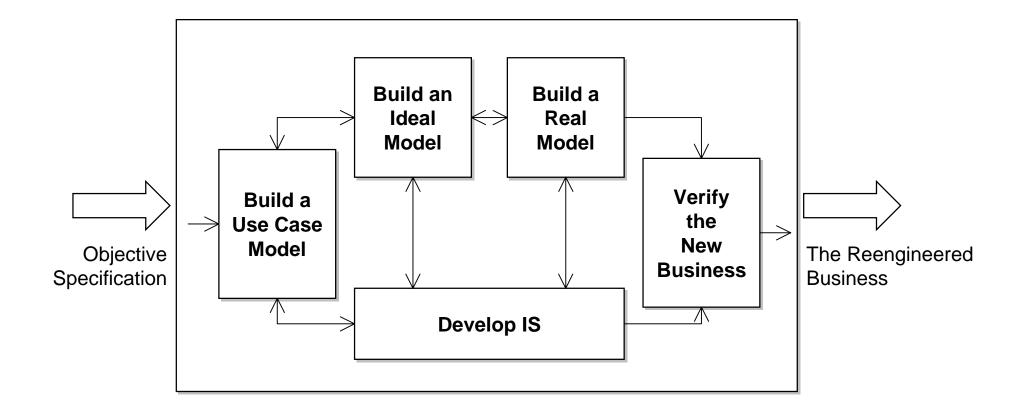


Envisioning Model of the **Existing Business** Strategy Understanding of the **Existing Business** Customer Objective Reengineering Benchmarking Demands Specification Directive





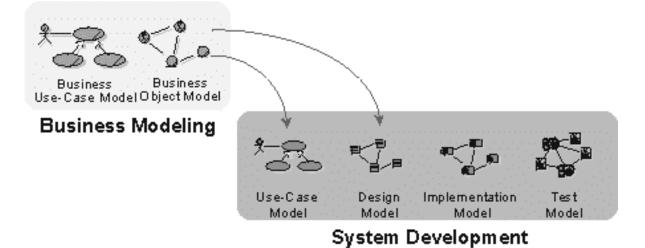






Goals:

- □ Understand the structure and dynamics of the organization
- Ensure that customers, end users, and developers have a common understanding of the organization
- Derive requirements on systems to support the organization

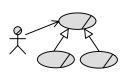




 \rightarrow a model that describes the processes of a business and their interactions (i.e. within business services) with external parties like customers and partner



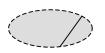
- Business Actor
 - → a role played in relation to the business by someone or something in the business environment
- Business Use Case
 - \rightarrow a sequence of actions performed in a business that produces a result of observable value to an individual actor of the business



- Use Case Relationships
 - Actor generalization, include, extend and use case generalization
 - * as in "normal" use case model
- Business Use Case Package
 - * as in "normal" use case model



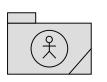
→ an object model describing the realization of business use cases. It serves as an abstraction of how business workers and business entities need to be related and how they need to collaborate in order to perform the business



- Business Use Case Realization
 - → describes how a particular business use case is realized within the business object model, in terms of collaborating objects
- Business Entity
 - \rightarrow a "thing" handled or used by business workers



- Business Worker
 - $\rightarrow~$ a role or set of roles in the business, interacting with other workers and manipulates business entities



- Organization Unit
 - \rightarrow encloses business workers, business entities, and other organization units that, according to some criterion, belong together
- Relations
 - Association, aggregation, generalization, ...



- □ Activity Diagram
 - illustrates the workflow of a business use case
- □ Sequence diagram
 - depicts the details of the interaction among business workers, business actors, and how business entities are accessed, during the performance of a business use case
- **Collaboration Diagram**
 - Team-Collaboration Diagram
 - shows which business workers must interact, and which business entities must be accessed to perform the workflow of a business use case; messages, and message sequence numbers are excluded
 - Work-Collaboration Diagram
 - semantically identical to a sequence diagram but focuses on the objects, while the latter focuses on the interactions
- □ State Diagram
 - illustrates which states a business worker or a business entity can have



Business Model	System Model
Business use case	Subsystem (package)
"Cluster" of business entities	Subsystem
Business worker's responsibility (operation) supported by system	Use case(s)
Business worker supported by system	Actor
Business actor supported by system	Actor
Business entity	Entity class
Business entity attributes	Entity class
Relationships between business entities	Relationships between entity classes

Business Modeling Workflow



