

Business Process Modelling Erik Perjons



Questions to answer

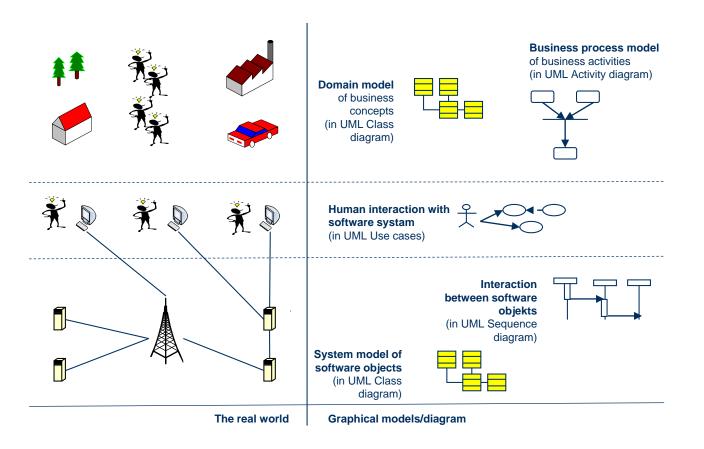
- What is a business process?
- What is a business process model?
- Why do we create business process models?

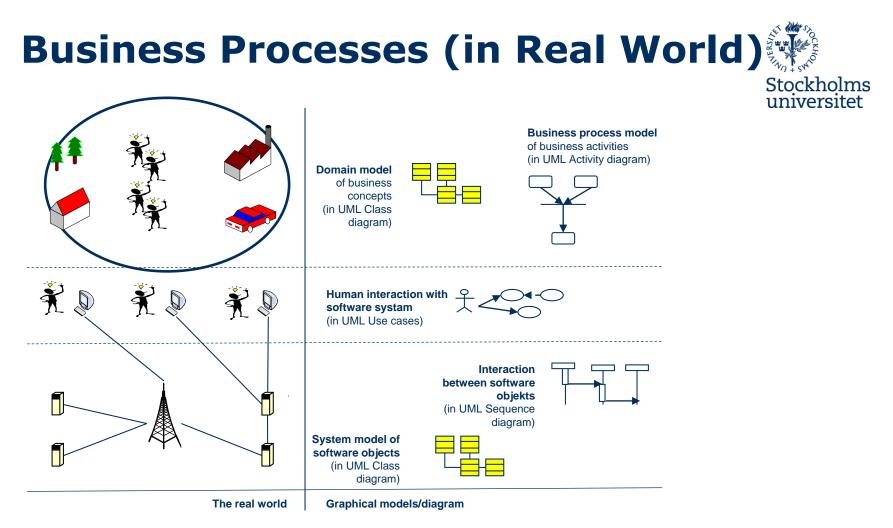


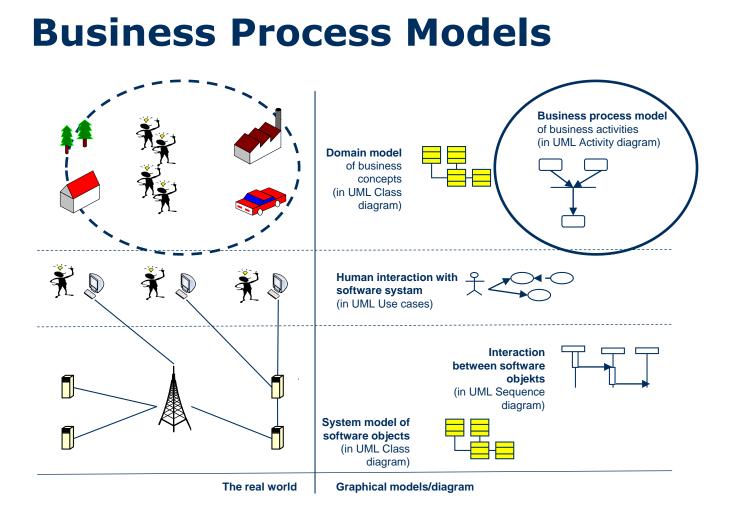
Business Processes and Models

Real World and Models









Stockholms universitet



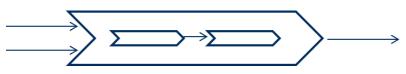
Business Processes (in the Real World)



Definitions of Business Process

 "A set of activities that takes one or more types of input and turns them into an output of greater value to the customer" [Hammer]

 "A specific ordering of work activities across time and place, with a beginning, an end, and clearlydefined inputs and outputs" [Davenport]



Which Business Processes Exists?



It is the organization itself that decide what business processes exists, which activities are included in the processes, and how the processes start and end

Example of business processes in an organization:

- Sales process
- Production process
- Order process (which can be part of the sales process)
- Delivery process (which also can be part of the sales process)
- Quality assurance process
- Procurement process
- Labour hiring process

Business Process Instance



- By business process we either mean a business process instance or business process type
- A **business process instance** (sometimes called case) is the actual carrying out (often called execution) of the process in the real world, resulting in the production of actual goods and/or services.

Business Process Type

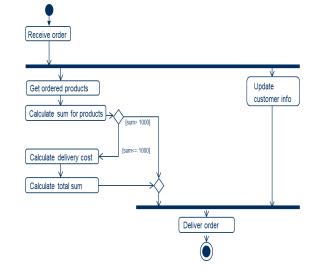


- A **business process type** is a grouping business process instances that aim at reaching similar goal in a similar way.
- A business process type can be seen as a idea or understanding of how a business process instances of the same type are or should be carried out

Business Process Model



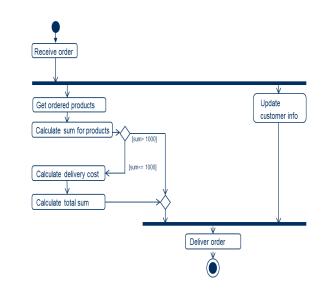
- Both business process types and business process instances can be represented as models
- However, it is usually the business process types that are represented as models, thereby presenting a map of how business processes instances are or should be carried out



Business Process Model



- A business process model is a representation of a business process type (if it is not explicitly stated that it is an instance)
- The business process model may be illustrated by means of diagrams of various kinds complemented by textual descriptions and perhaps formal rules





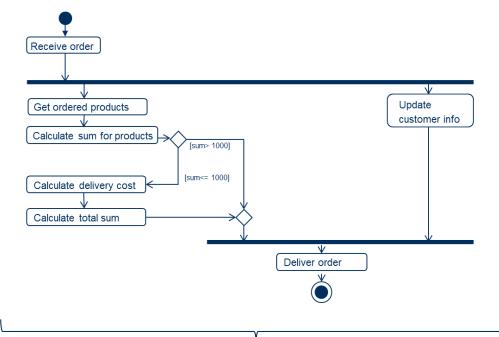
Process Models

Business Processes Models





Abstract description of a Sales Process



Detailed description of Sales Process

Why Create Process Models? 1(2)



Different goals for creating a business process model:

- **To better understand the business**, that is, understand what activities are actually carried out in what order
- **To analyse business processes to find problems** within the existing business processes
- To design more effective business process for example, more productive/efficient processes, higher quality processes, more complient processes

Why Create Process Models? 2(2)



Different goals for creating a business process model (cont):

- To automate business processes or part of them, to create more productive/efficient processes. Such automation require that it is made clear what part of the process that should be automated
- To identify requirements on IT since IT needs to be designed to support business processes



From Whom's Perspective are Process Models Created?

Examples of perspectives:

- The organization's perspective, or more preciesly:
 - Owners' perspective
 - Executive/Management's perspective
 - Process Participants' perspectiv
- The customers' perpective
- The suppliers' perpective

Goal and Perspective

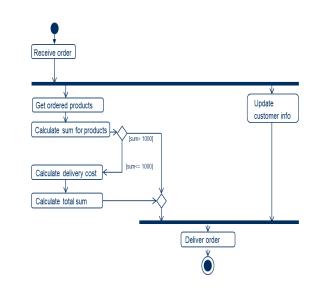


The goal (purpose) and perspective of business process models should be explicitly stated - to support the design as well as interpretation of the process models

Example:

- *Goal of Business Process Model:* To identify requirements on IT
- Perspective of Business Process Model:

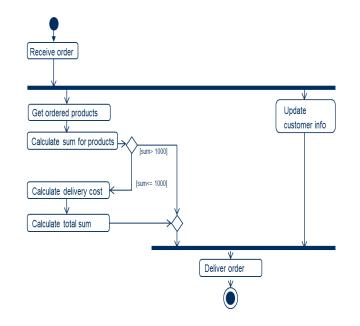
Executive/Management's perspective





As-is vs. To-be Process Models

- Business process models can be descriptive, i.e. they depict the current way working of the process. These models are often called as-is models
- Business process models can be prescriptive, i.e. they prescribe a desired state. The models are often called to-be models





Modelling Languages

- There are many different modelling languages (sometimes called modelling techniques) that can be used for modelling business processes. The different languages focus on different concepts and thereby give different focus on the business processes
- Business Process Modelling Languages can focus on:
 - the order of the activities (such as UML Activity Diagrams, Event Process Chain, BPMN)
 - input and output (such as IDEF0)
 - states of a process (such as UML State Machine Diagrams)



Questions to answer

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