

T-86.5141 Enterprise Systems Architecture (Fall 2011)

Wed 12.10.2011

Timo Itälä

Guest Lecturer: Jouni Lähteenmäki, OP Pohjola

BUSINESS PROCESS MANAGEMENT (BPM)



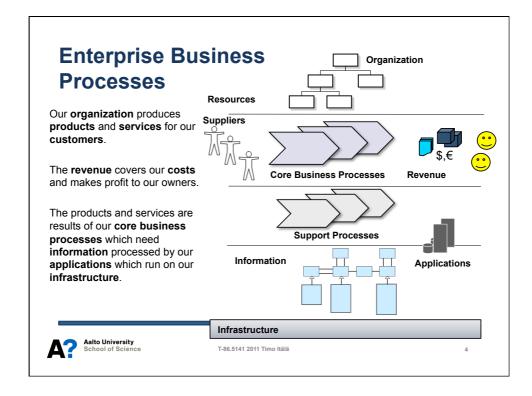
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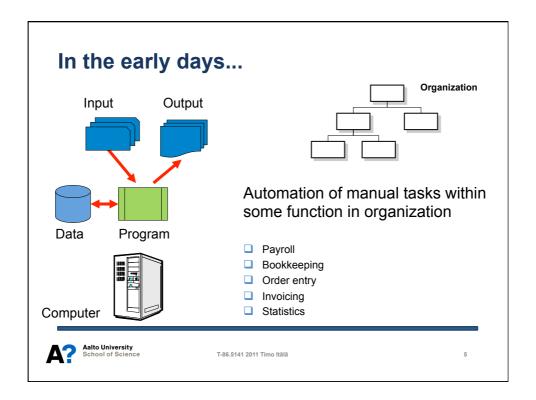
Topics

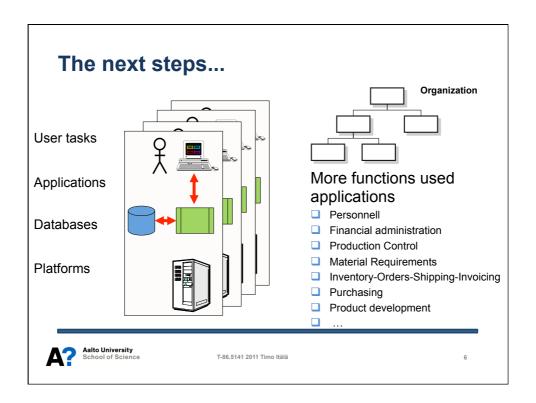
- Background and concept of Business Process
- ☐ Flows of material, work, money, information
- Business Process Management
- Business Process Modeling
- Service Orientation
- ☐ Behaviour of business processes
 - ☐ Case: Transcripition of medical records

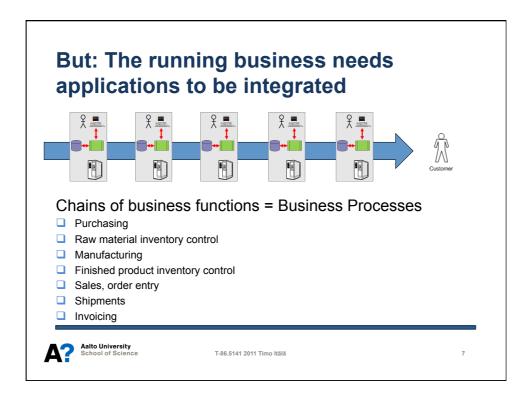


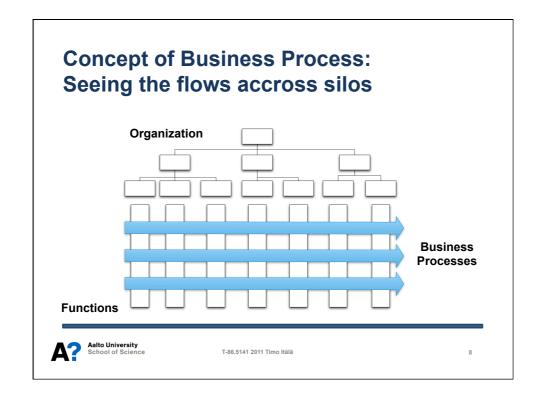
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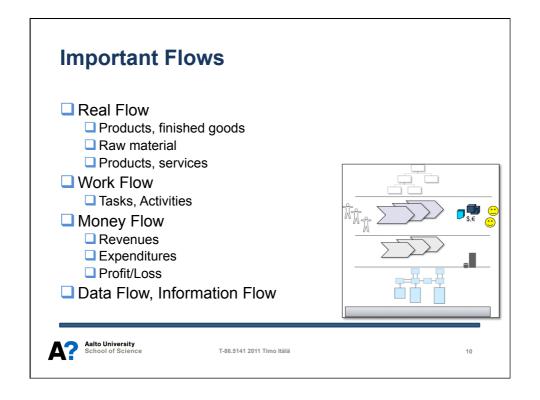


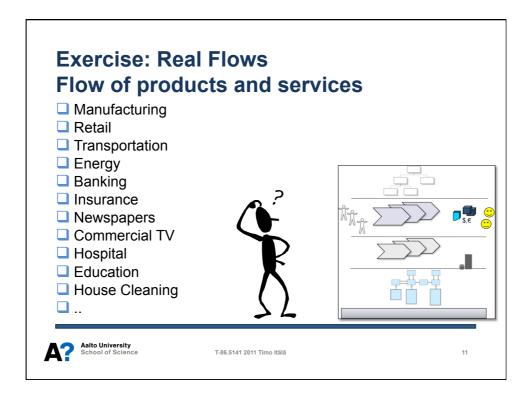


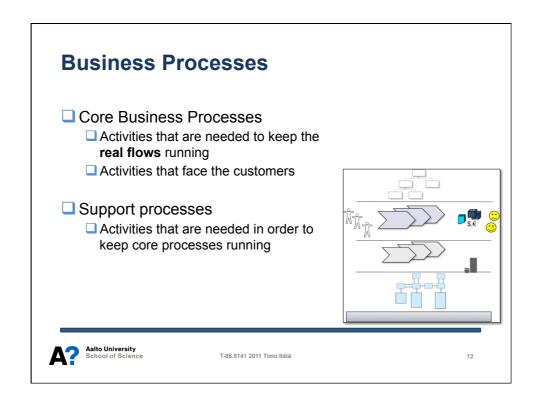


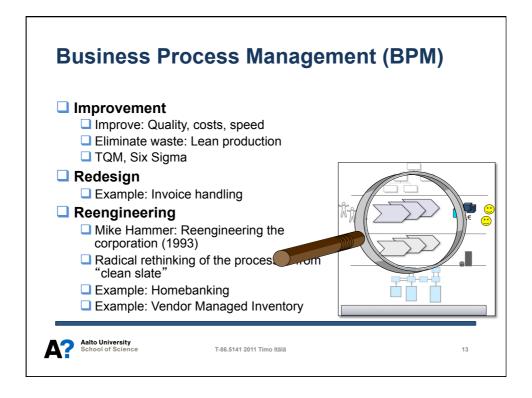


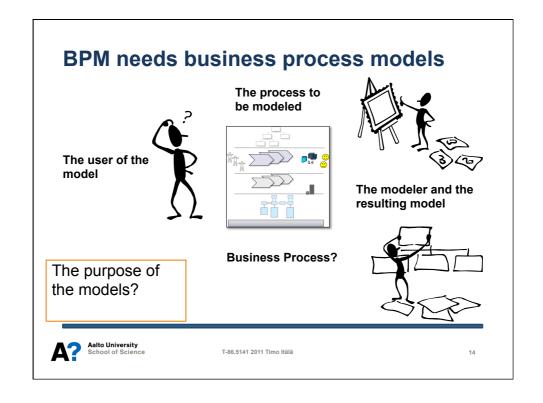


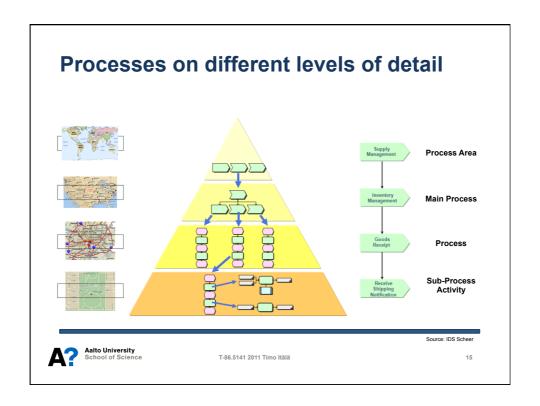


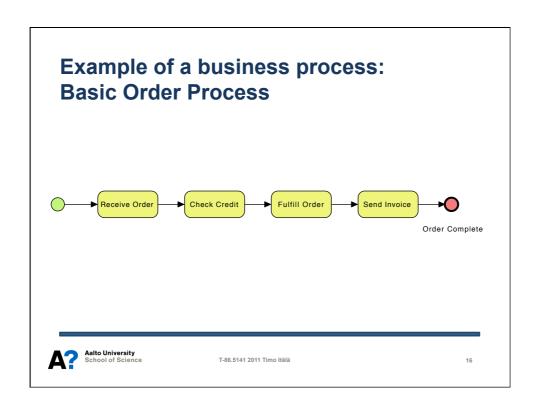


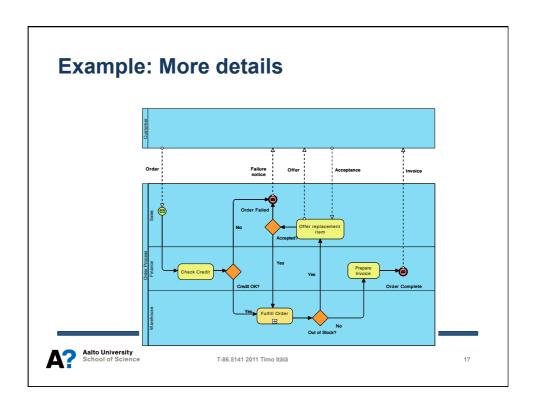


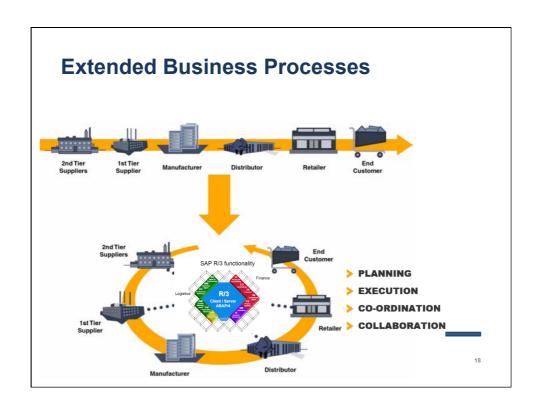










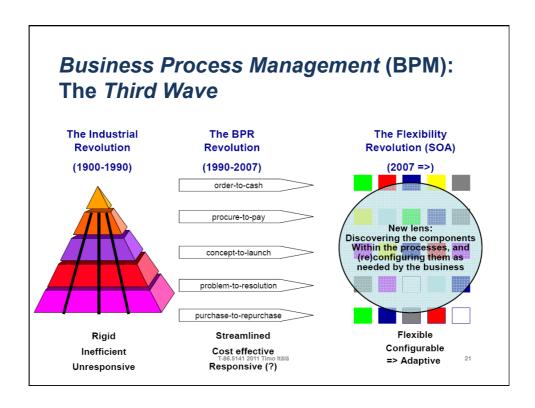


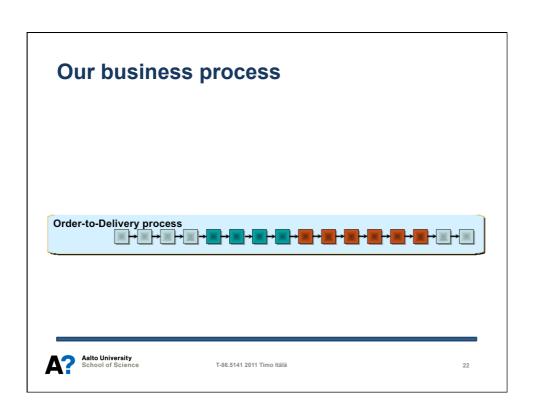
Service Orientation

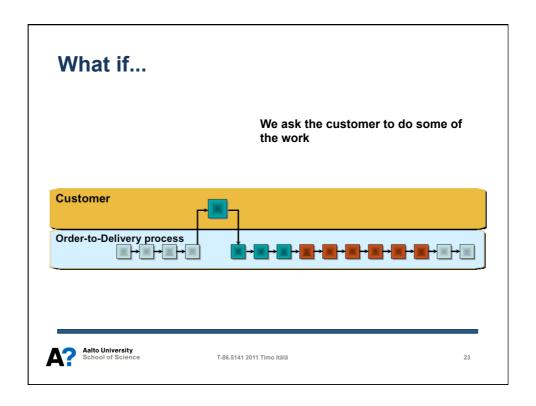


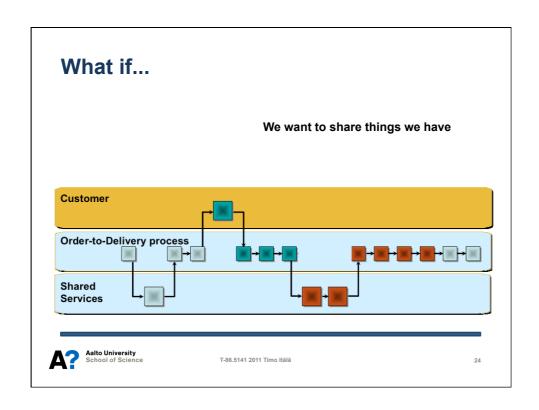
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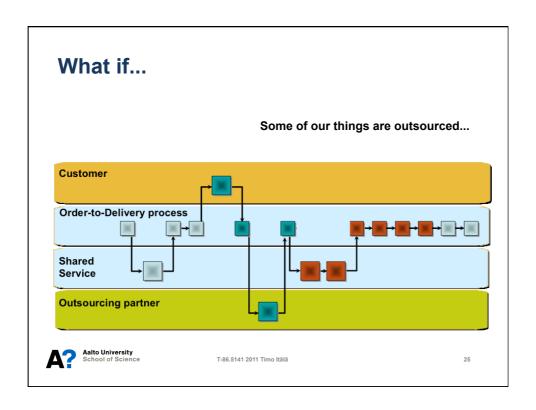
But what is happening with processes... But: Have we moved from one set of silos The BPR The Industrial (functions) to another Revolution Revolution set of silos (1900-1990)(1990-2007) (processes?) procure-to-pay New lens: Seeing the flows across the silos and straightening them out Rigid Streamlined Inefficient Cost effective Itala Unresponsive Responsive (?)

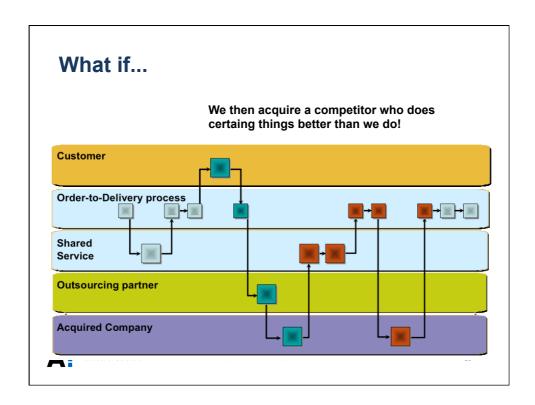


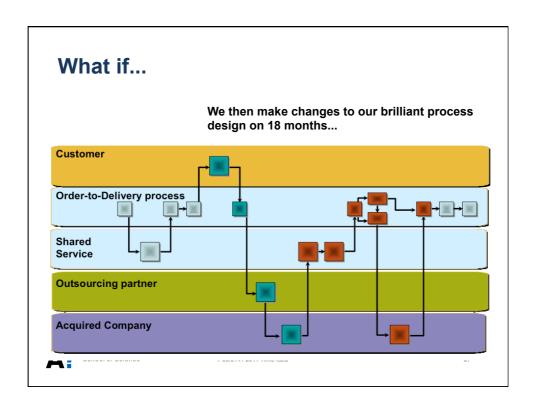


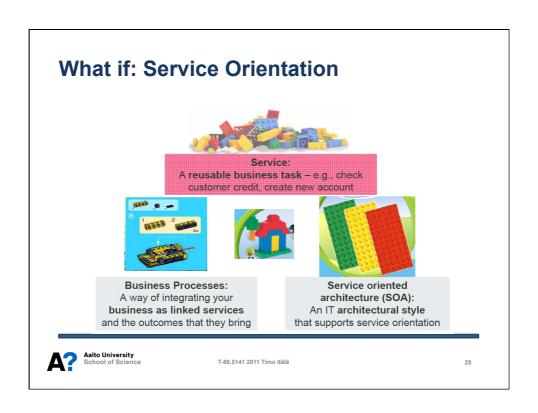


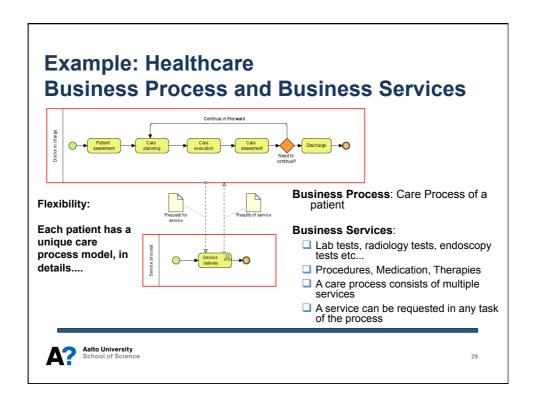






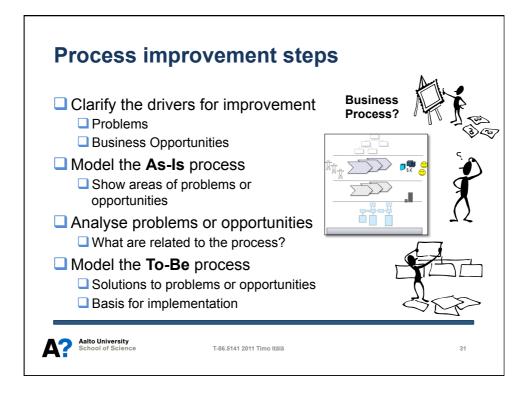


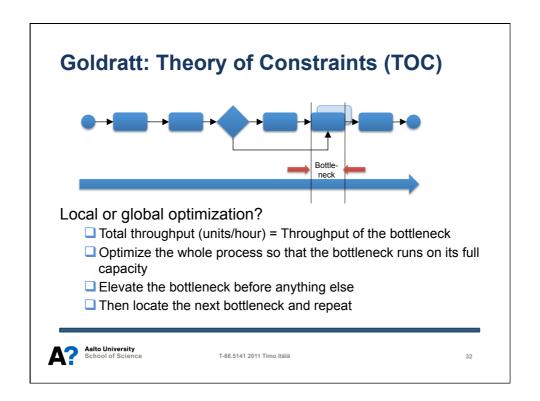




Behaviour of Business Process







Example: Medical transcriptionists' workflow in hospital

- Medical transcriptionists listen to dictated recordings made by physicians and other healthcare professionals and transcribe them into medical reports, correspondence, and other administrative material.
- ☐ They generally listen to recordings on a headset, using a foot pedal to pause the recording when necessary, and key the text into a personal computer or word processor, editing as necessary for grammar and clarity.
- ☐ The documents they produce include discharge summaries, medical history and physical examination reports, operative reports, consultation reports, autopsy reports, diagnostic-imaging studies, progress notes, and referral letters.
- Medical transcriptionists return transcribed documents to the physicians or other healthcare professionals who dictated them for review and signature or correction. These documents eventually become part of patients' permanent files.



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As-Is

- Introduction of digital dictation technology
- ☐ Problem with throughput at some departments
- Long backlogs of dictations waiting for transcription
- ☐ A requirement to deliver the transcription in five days
- What is causing the problem?



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