"Business Process Technologies" [0] Introduction and Organisation

Teacher



Vita

- 2000 Diploma in Business Information Systems at University of Cologne
- 2007 PhD Degree in Computer Science at University of Cologne
- 1998-2010 Co-Founder & CEO in a Consulting and Implementation Company in Bonn
- 2007-2010 Chief Architect and Release Manager at sd&m, Munich
- Since 2010 Professor at HFT Stuttgart, special interest area Business Process Management

Contact

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Students' Introduction: short oral presentation

- Name
- Country of origin
- Previous studies and jobs (what and where)
- Self Assessment
 - Programming skills (Languages and platforms)
 - Knowledge/experience in the area of BPM and SOA
- Goals for this module

Lecture Content

- Business
 - Organisation striving for profit shall include public authorities here
- Process
 - Composed activities contributing to a goal by converting input to output
- Technologies
 - The interesting stuff ;-) supporting business processes and their management

Bloom's Taxonomy Verbs by <u>Fractus Learning</u>, Lizenz: CC-BY-SA 4.0

Evaluation Marks and defined pidgements based on internal process and a control of the control

Learning Goals

- ✓ Select and apply appropriate technologies to support the management of analysed business processes
- ✓ Develop and implement digital business processes strategy to workflow management & tools

Success via

- Active participation
- Lecture material from Moodle
 - Bring and take notes
 - recap
- Individually work on exercises

Mode per SPO 2020

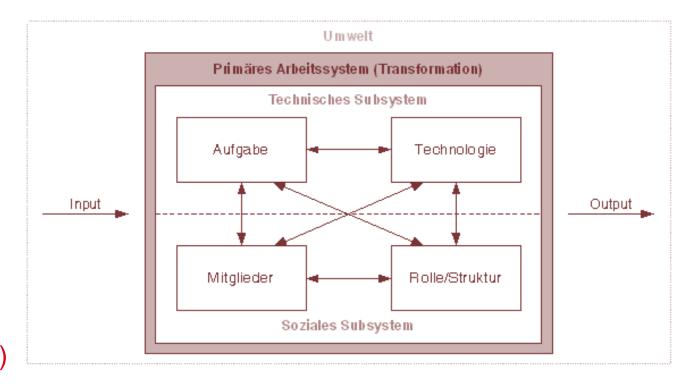
- Method of Teaching
 - Lecture with practical exercises
- Weekly Contact Hours: 4h
 (2h Lectures + 2h
 Exercises/Presentations)
- Student Work Load 180h Total:
 - Lectures (68h)
 - Self Studies (112h)
- Required Knowledge
 - Programming, Middleware Technology, Basic internet technology

- Method and Extent of Examination
 - Written examination, 90 minutes
 - 1 original self-handwritten A4 Sheet allowed (both sides)
- Pre-Exam Requirements
 - 3 Assignments from Exercises, small (Moodle) knowledge Tests
 - 1 Short presentation on a defined topic
 - 50 % of the points necessary

Value: 6 ECTS Points

Companies as socio-technical systems

- A company is a sociotechnical system with configured interaktion of
 - People
 - Values
 - Abilities
 - Organisation
 - Static (structure, roles, responsibilities)
 - Dynamic (processes, workflows)
 - Culture
 - Technology



Business process management = Management of business processes

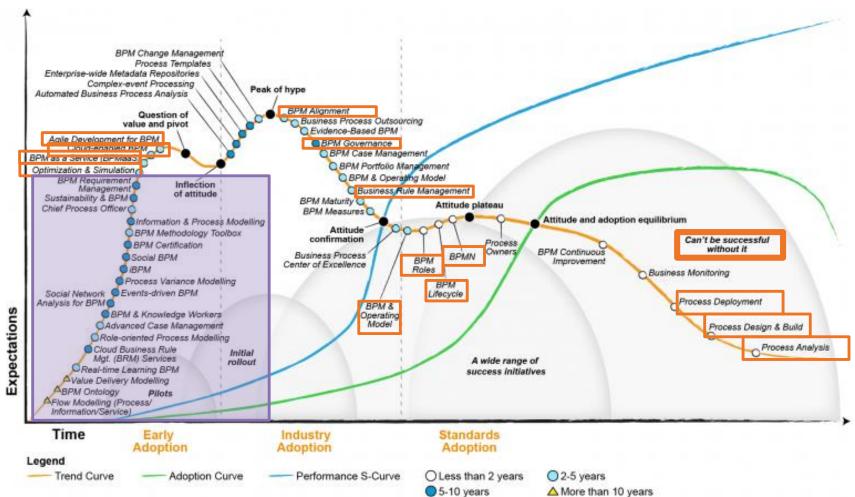
- Set of activities
 - with factual and time dependencies
 - connected by trigger and resulting events
 - Requiring one or more inputs
 - Creating a valuable result (output) for addressees

[derived from Hammer/Champy and Scheer]

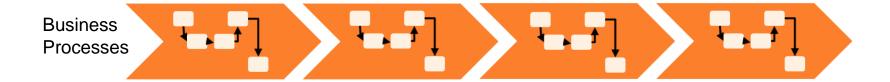
- Special form of dynamic organisation
 - Specifies business strategy
 - Links it to IT systems
 - -> connecting element between strategy and IT/system development

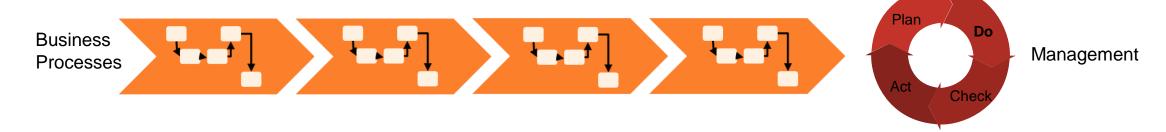
[Österle 1995]

Business Process Management Trends



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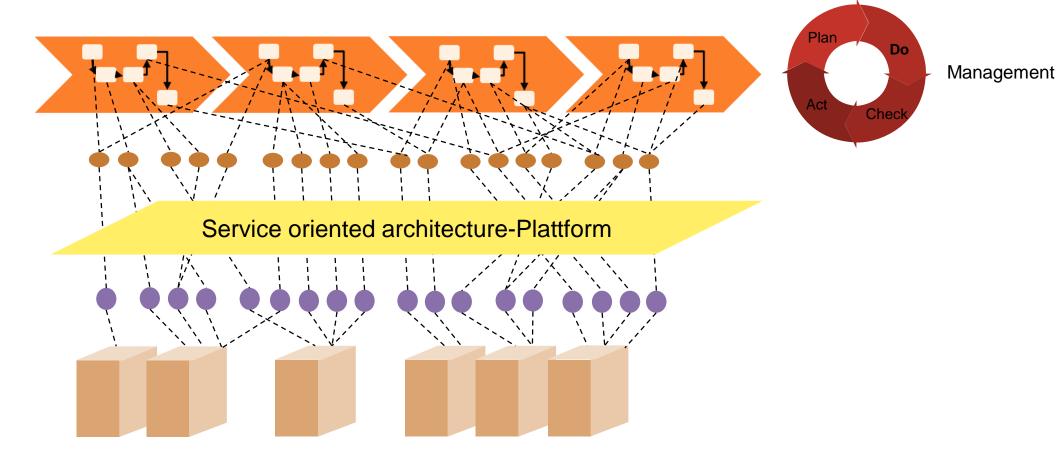
Business Processes

Business Services

Technical Platform

IT Services

IT Systems



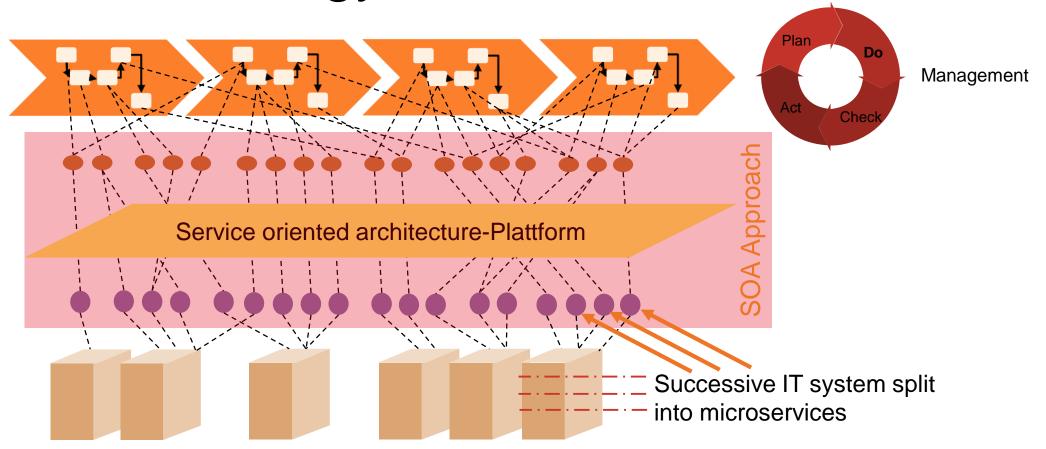
Business Processes

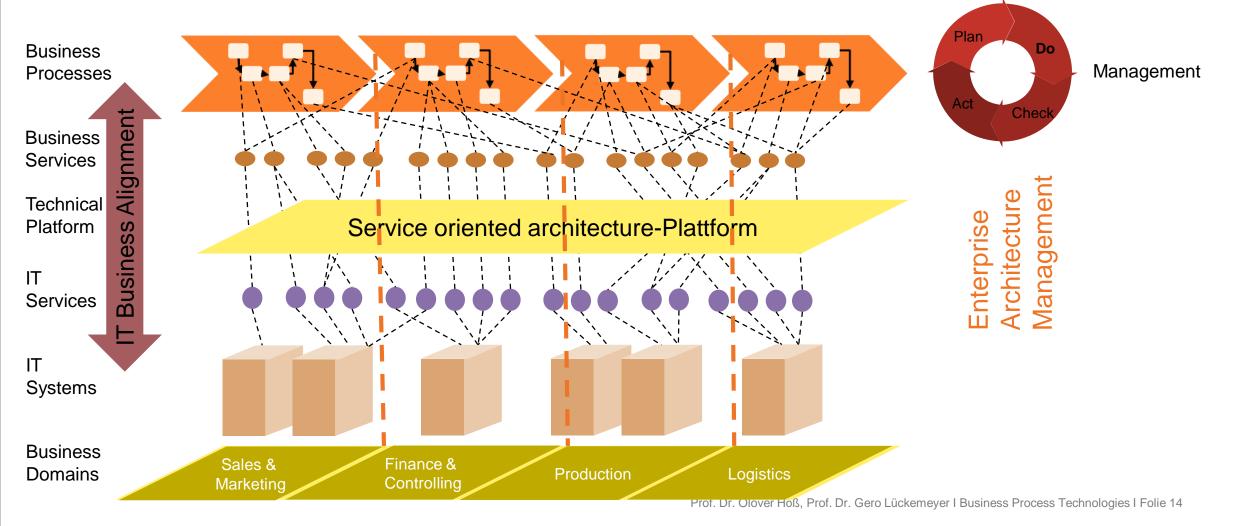
Business Services

Technical Platform

IT Services

IT Systems





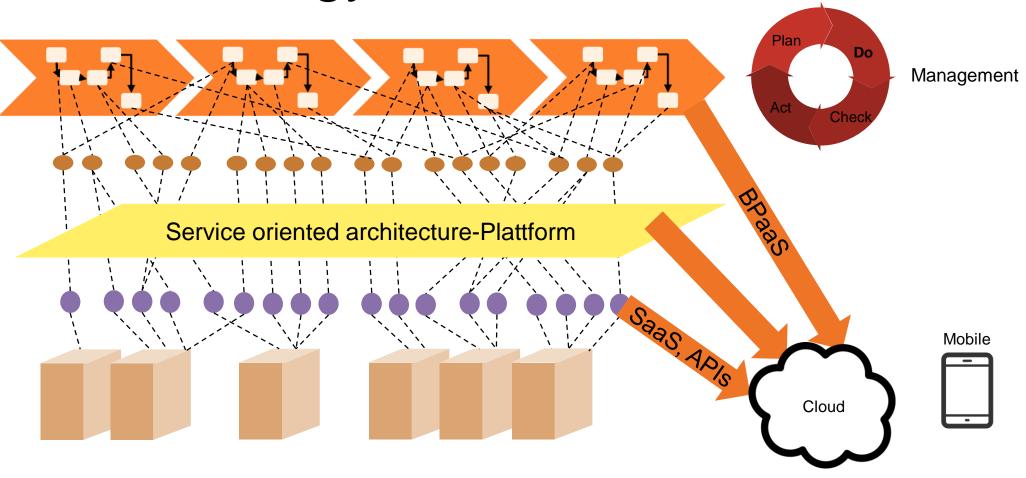
Business Processes

Business Services

Technical Platform

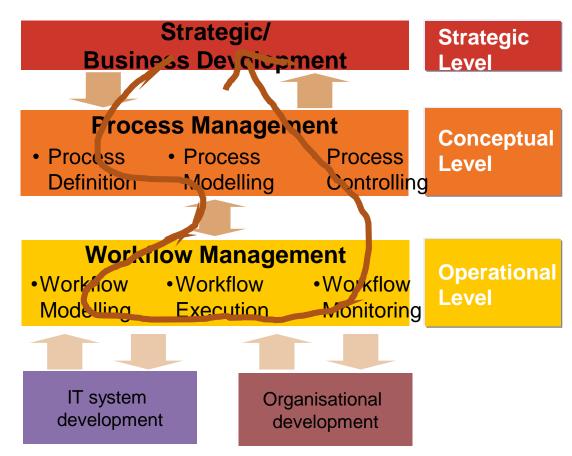
IT Services

IT Systems



Agenda

- Foundations
- Business/Factual Level
 - Process modeling methods and tools
 - Analysis/Simulation
- Operational Level
 - Foundations Workflowmanagement
 - Methods and tools
 - Integriated platforms (e.g. camunda)
- Strategy Level: Digital processes
- Advanced
 - Business rules management
 - Service oriented architekture (SOA)
 - Cloud & Business-Process-as-a-Service

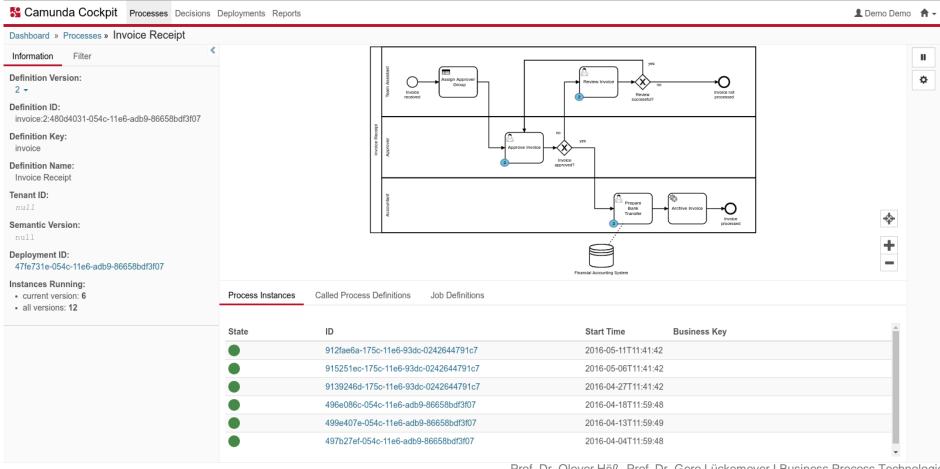


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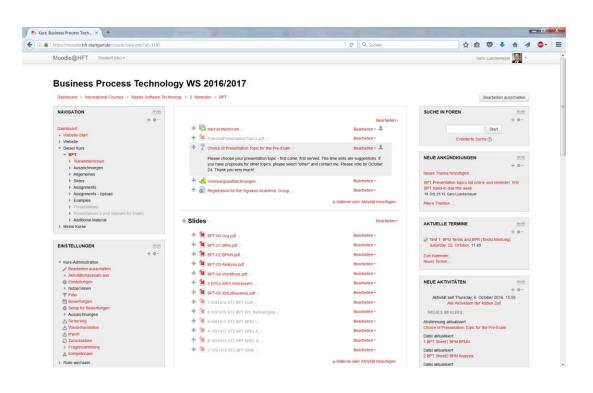
Overview (preliminary)

Agenda by Week			Exercises
7.10.	1 Basics & Terminology	1 Basics & Terminology	Speech Topic Selection
14.10.	2 Business Process Modeling	2 Business Process Modeling	Business Process Modeling
21.10.	2 Advanced Modeling	2 Advanced Modeling	Advanced Modeling [E1]
28.10.	3 Process Analysis	3 Process Analysis	Process Analysis [E2]
05.11.	See Speech Preparation Feedback	See Speech Preparation Feedback	Speech Preparation
12.11.	4 Webservices Recap	4 Webservices Recap	Webservices
19.11.	5 Workflows/Process Execution	5 Workflows/Process Execution	Workflows/Process Execution [E3]
26.11.	5 Workflows/Process Execution	5 Workflows/Process Execution	Workflows/Process Execution
02.12.	Project Week	Project Week	Speech Preparation
09.12.	6 Business Rules Management	6 Business Rules Management	Business Rules Management [E4]
16.12.	7 Service Oriented Architecture	7 Service Oriented Architecture	Speech Preparation
23.12.	Your Speeches	Your Speeches	
12.1.	8 Digital Process Development	Wrap-up & Questions	
19.1.	8 Digital Process Development (Lab)	8 Digital Process Development (Lab)	Exam Preparation

Current Trends: integrated platforms – Camunda



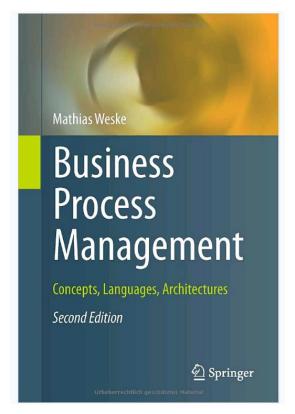
Module site

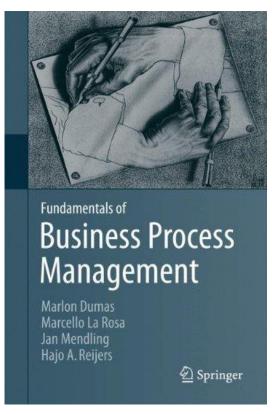


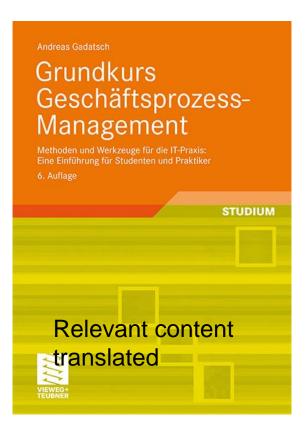
http://moodle.hftstuttgart.de/course/view.php?i d=1192

Self-enrolment necessary!

Literature







To be updated with specific material for future topics...

Thank you

For your attention!