

Business Architecure (cont.)

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The Business Process Perspective on Enterprise Architecture

- From the *business process perspective*, enterprise architecture achieves enterprise integration through
 - capturing and describing processes, strategies, organisation structures, information and material flow, resources etc.
 - concentration on how to perform core business processes in an organisation
 - considering the information and material flow in the entire process
- In this sense, business process management (BPM) relies on enterprise architecture

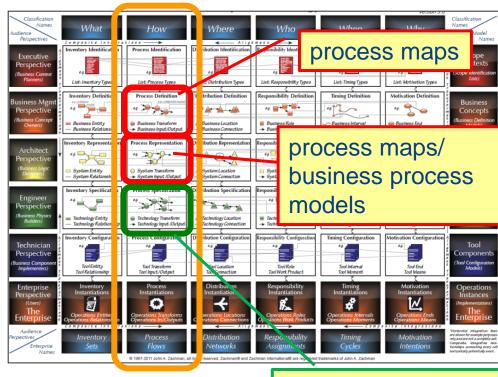
Prof

(Bernus et al. 2003, p. 9f)



Zachman Framework: Business Processes in different Perspectives

- Vertical Relationships relate the business process represented in the different perspectives
 - ♦ A "process map" is an overview of the enterprise's business processes linking them to the value chain
 - ♦ A "business process model" is a process diagramm from the business perspective.
 - ♦ A "workflow model" or "process implementation" represents the process from the IT perspective

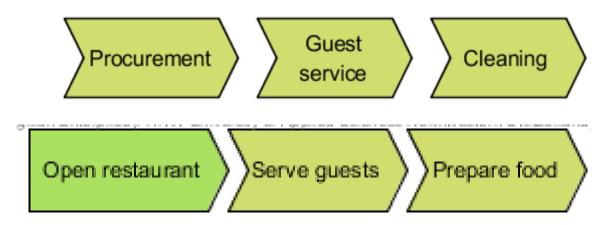


workflow models

The Workflow Management Coalition defines "workflow" as the automation of a business process



Process Maps



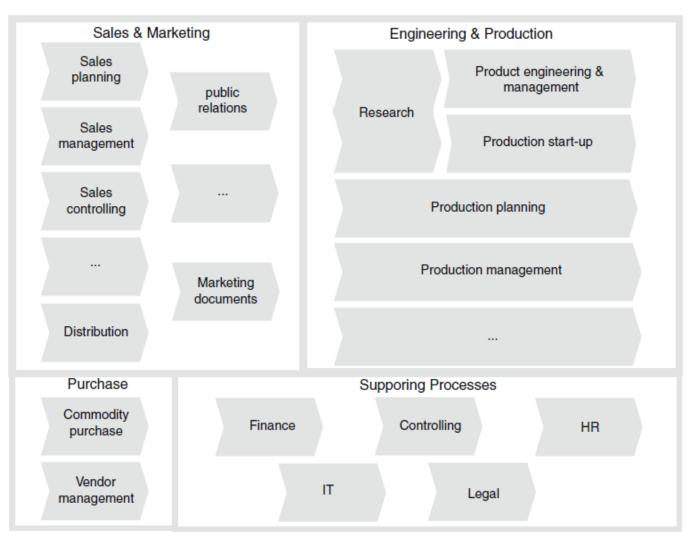
- Process maps give an overview of the business processes on a high level of abstraction
- Each element of a process maps represents a business process
- Process maps represent relationships between processes
 - grouping processes
 - ◆ logical ordering (e.g. procurement → production → sales)
- But: process maps do not represent control flow, i.e. a predecessor does not necessarily trigger ist successor



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Example of a Process Map

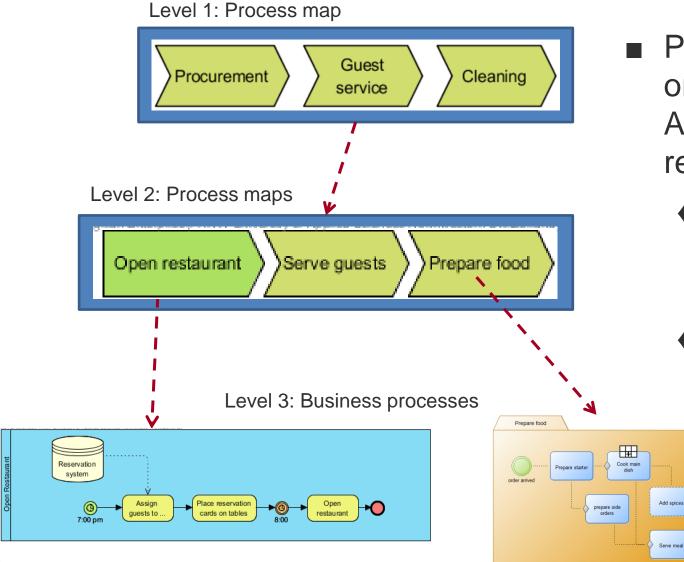


- This example represents a process map as a cluster diagram.
- Business processes on the value-chain level create the "umbrella" clusters, each of which contains a set of subprocesses.
- For example, the subprocess "sales planning" is assigned to its parent process, "sales and marketing".

(Hanschke 2010, p. 75)



Hierarchical Process Maps



- Process maps can be organized hierarchically.
 An element either represents
 - another set of processes (i.e. a process map)
 - a business process (e.g. in BPMN)

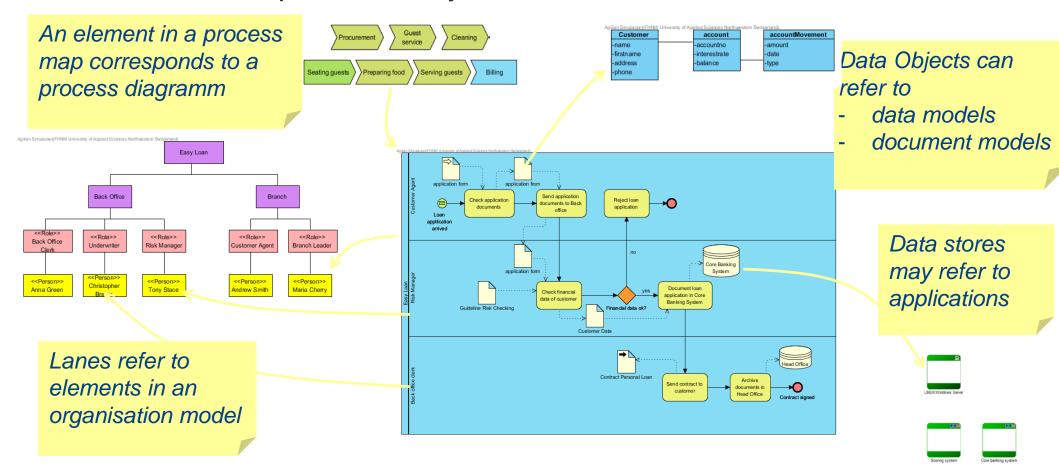


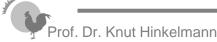
Business Processes and Their Context



References in BPMN

- Process models represent the flow of work.
- Processes are related to other aspects of business
- These are represented by references to other models.





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Relationships from and to Business Process Diagrams

There are two kinds of relations from/to BPMN

- Relations to process models as a whole from
 - Process maps
 - Business motivations
- Relations from process model elements to elements in other models
 - data objects in document models and data models
 - organisation units or roles in organisation models
 - products in product models
 - applications and application services in IT models

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business rules



References in BPMN

There are two important references from BPMN

- Data objects can represent different kinds of data
 - Structured data
 - ♦ Documents
 - Data store (applications)
- Lanes and pools represent organisational elements
 - Organisation units
 - ♦ Roles
 - People

Data and organisation are modeled in their own models; their elements can be referenced from BPMN

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