



University of Applied Sciences Northwestern Switzerland
School of Business

Business Process Modelling

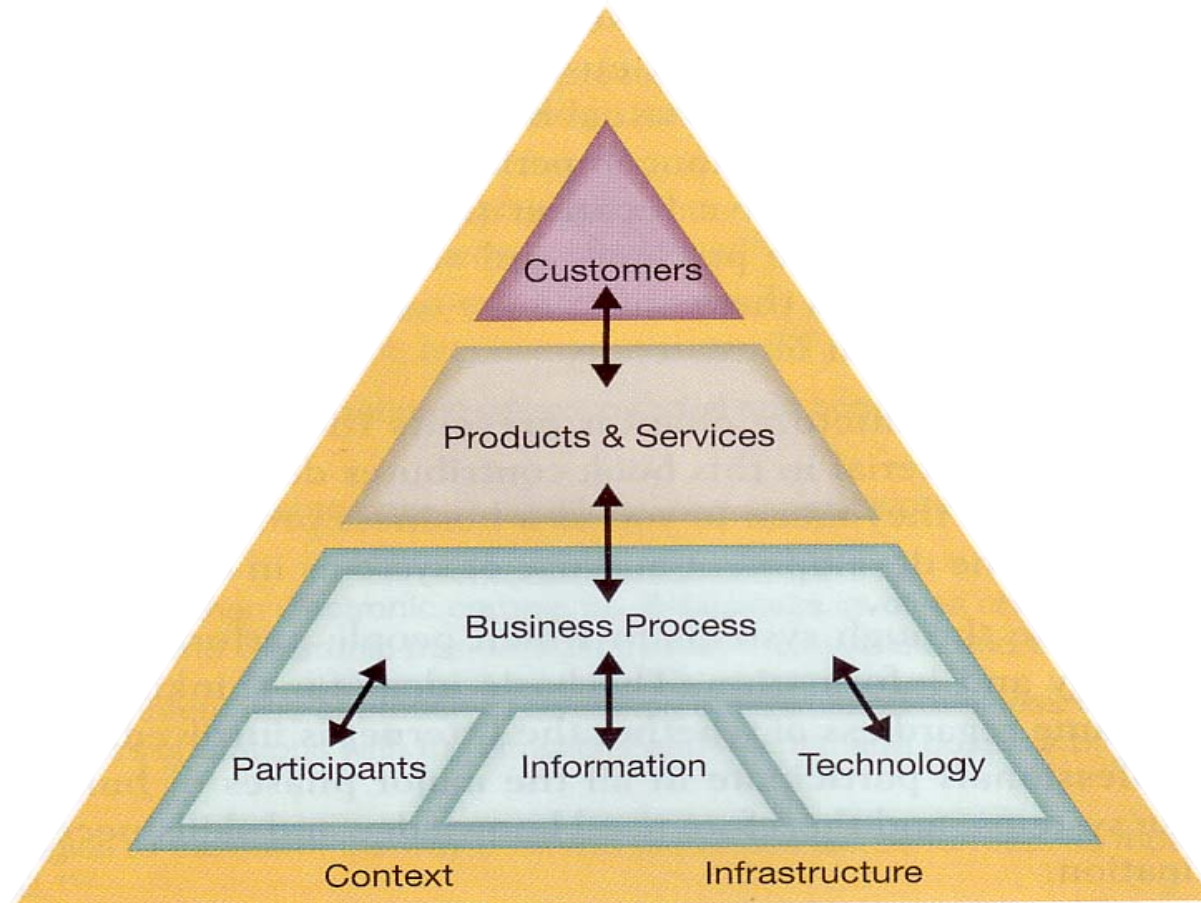


Process

- There are many definitions of a business process. Here are some important characteristics of a process
- A process is a systematic set of activities
 - ◆ which manipulate or transport material or information
 - ◆ in order to accomplish a specific purpose or objective
 - ◆ creating value for a customer (internal or external)
- Most processes
 - ◆ require some sort of input and
 - ◆ use and/or consume resources and
 - ◆ produce some sort of output – a service or a product



Work-Centered Analysis



Quelle: Alter, Steven: Information Systems – The Foundation of E-Business, 4. Auflage, Prentice Hall, New Jersey, 2002



Exercise

- What are the possible uses of process models?
- From this derive: What would you want to represent in a process model?

- → Brainstorming

Possible uses of Process Models

Organisational Change

- documentation of the organisation
- re-organisation
- business re-engineering
- continuous process improvement
- quality management
- benchmarking
- knowledge management
- information management

Application Systems Design

- selecting standard software
- customizing software systems
- systems engineering
- software development
- workflow management
- simulation



Possible Purposes of Process Models

- Structure: Process Models drive communication
 - ◆ inside an organisation, helping to form a shared understanding
 - ◆ with suppliers, customer and/or partners up and down the value chain to agree on cooperation
- Performance: Process models provide a framework within which metrics have meaning, e.g. end-to-end cycle time and activity costs
- Execution: Interpreted by sophisticated software systems, executable process models carry the instruction for how work should happen, who should do it, links to information systems etc.

Organizing Work of enterprises

- Organising work requires answers to questions such as
 - ◆ Which steps are *really* necessary
 - ◆ Who should do them?
 - ◆ Should they be kept in house or outsourced?
 - ◆ How should they be done?
 - ◆ What capabilities are needed?
 - ◆ What results do we expect and how will they be monitored?
- Without commonly agreed descriptions of the business process, answers to these questions are often vague

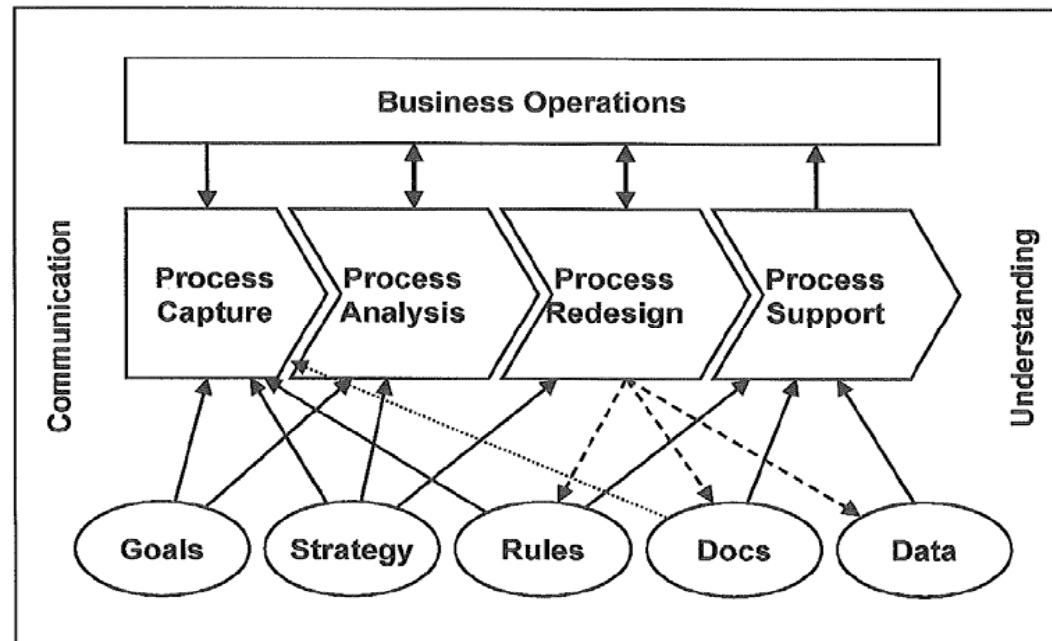


Modeling Issues

- The modeler is always making modeling decisions about the purpose of the model and the intended audience
- level of detail depends on the audience and the purpose
 - ◆ communication require less detail
 - ◆ for executable processes or simulation signification detail is required
- Content of the model
 - ◆ Organising work: → process structure
 - ◆ process improvement: → performance measures
 - ◆ process execution: → data structures, application interfaces,
...

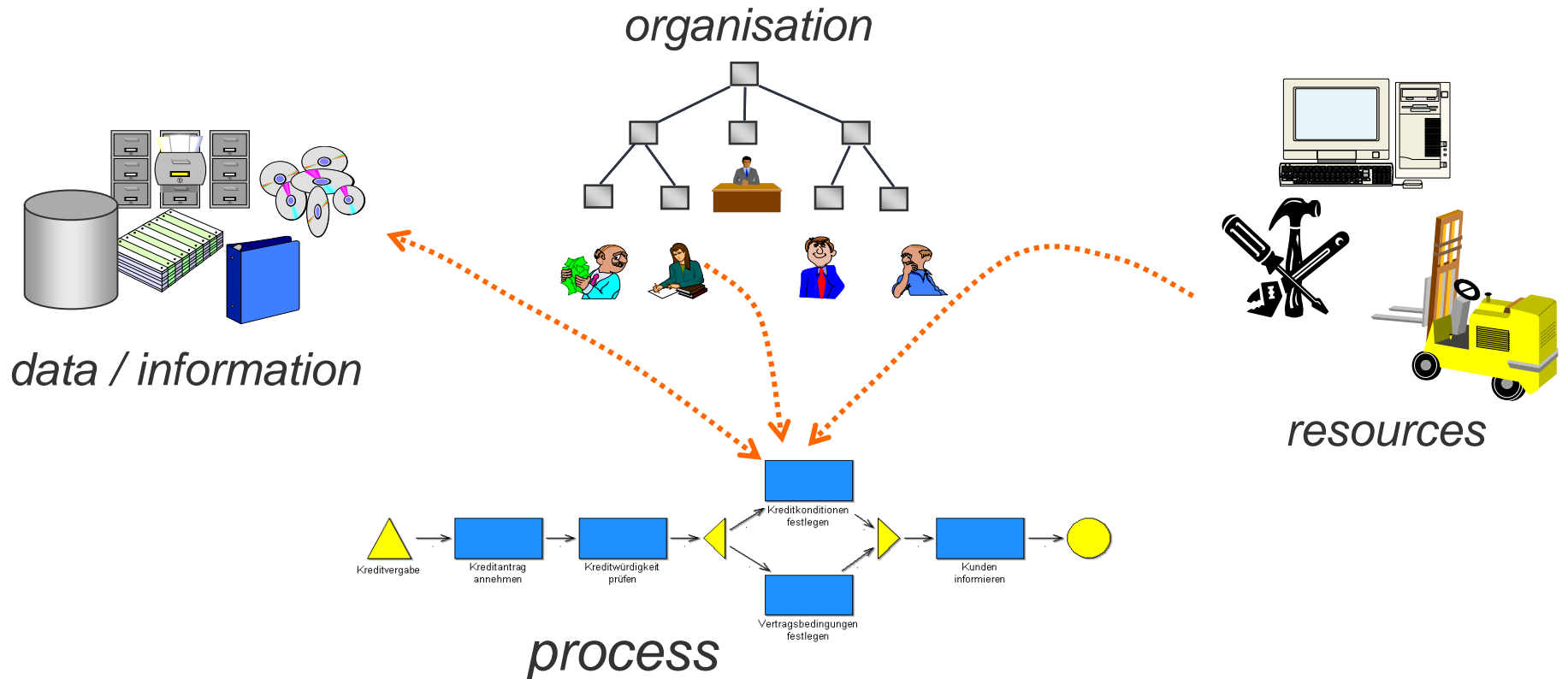
Process Models and Phases of Organisational Change

- People generally use process models to underpin their conversations, supporting communication and understanding
- Process models are usually created (discovered or captured) by looking into the business operations
- Potential inputs are goals, strategy and rules
- Some sort of analysis takes place before (re-)design.



Process Models and their Relations

- Processes are related to other aspects of business
- Process Models must represent these relations, too.



The BPMS*) - Paradigm

