Business Process Management

Lecture 2 Process Identification

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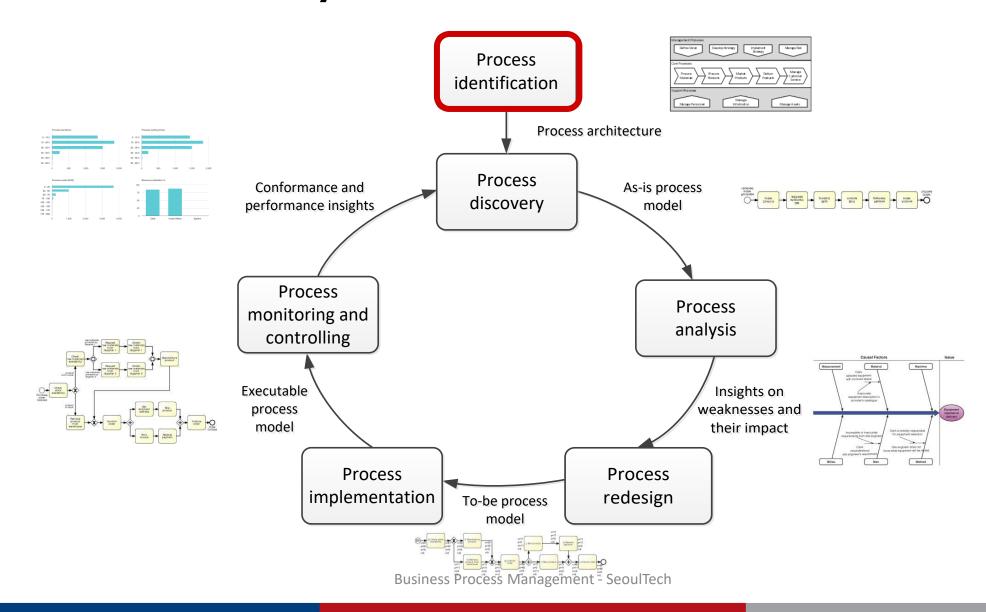


Contents

- The context of Process Identification
- Definition of the Process Architecture
- Process Selection



The BPM lifecycle





Process identification

What?

- I. Identify an organization's business processes
- 2. Prioritize their management based on certain criteria

Why?

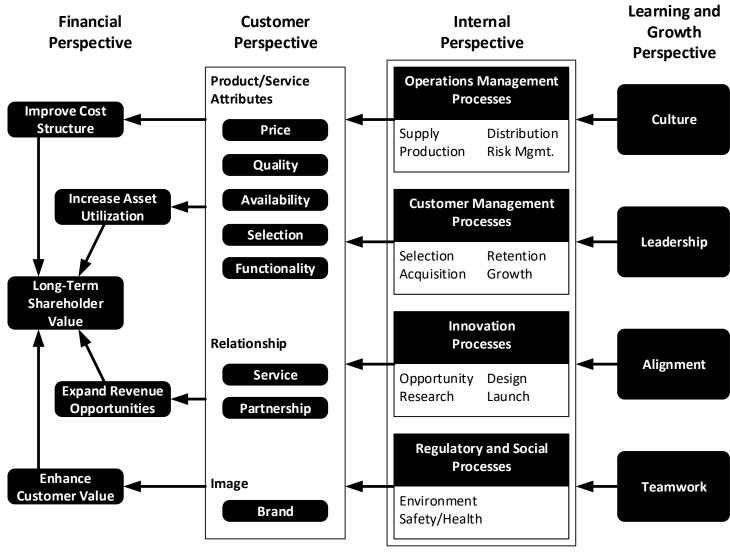
- I. Understand the organization
- 2. Maximize value of BPM projects
 - I. Strategic importance
 - 2. Unhealthy processes
 - 3. Dynamics of time \rightarrow importance of process change over time



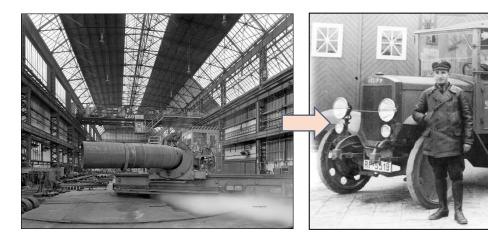


The balanced scorecard by Kaplan & Norton

Business strategy as an organizational perspective on setting and meeting business goals. (Mintzberg)



Changes of Strategic Relevance: Mannesmann SEOULTECH SOURCE STRAINS SEOULTECH SOURCE STRAIN SEOULTECH SEOURCE STRAIN SEOULTECH SEOURCE STRAIN SE







19th century



20th century



1990

Sources: stahlseite.de, Copyright Uwe Niggemeier, deutschestelefon-museum.eu, ebay-kleinanzeigen.de, wanne-eickelhistorie.de



The Process Checklist

- It may not be easy to decide on what to consider as a business process. A chunk of work that is frequently repeated might not be a business process on its own. To prevent poor scoping decisions, it is useful to consider the following process checklist:
 - Is it a process at all?
 - It must be possible to identify main action, which is applied to a category of cases.
 - Name is of form verb + noun
 - Outcome is in of form noun + past participle
 - Can the process be controlled?
 - Repetitive series of events and activities to execute individually observable **cases**.
 - Without a clear case notion, process management is not feasible.
 - Also, without any sense of repetition, a group of business activities may better qualify as a project than as a business process.

- Is the process important enough to manage?
 - There is customer who is willing to pay for outcomes,
 - Organization that carries out the process would be willing to pay another party for taking over, or
 - Legal, mandatory framework compels an organization to execute it.
- Is the scope of the process not too big?
 - 1:1 relation between initial event and activities.
- Is the scope of the process not too small?
 - Rule of thumb: there should be at least three different actors excluding the customer involved.
 - If there are no handoffs between multiple actors or systems, there is little that can be improved using BPM methods.



Process identification steps

- I. Definition of Process Architecture (aka Designation)
 - Enumerate main processes
 - Determine process scope



- 2. Selection of Processes (aka Prioritization)
 - Prioritize processes based on:
 - Importance
 - Health
 - Feasibility



Process Enumeration

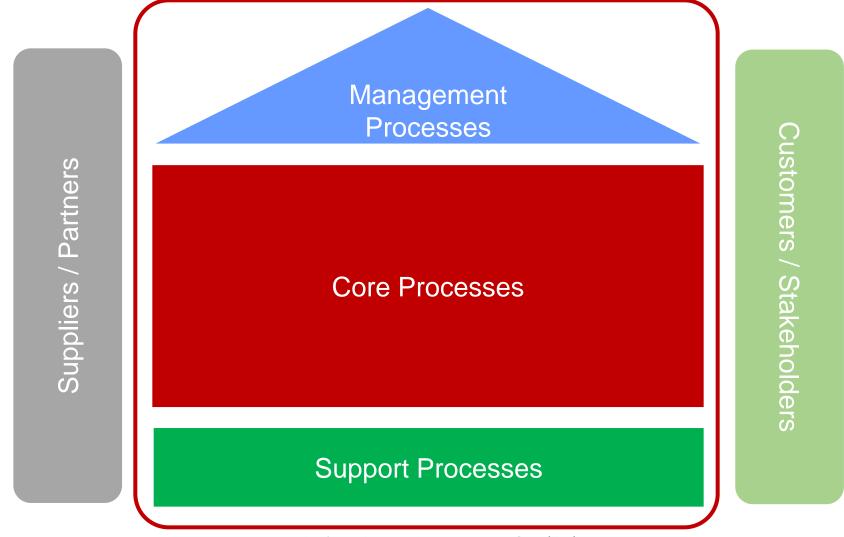
"Most businesses have just three core processes:

- I. Sell product or services
- 2. Deliver products or services
- 3. Making sure you have product or services to sell and deliver"

Geary Rummler



Porter: Types of processes



Example: core, support and management processes



Grocery Wholesaler

Core processes

- Sales (lead-to-quote, quote-to-order, order-to-cash)
- Purchase-to-Pay (direct procurement, e.g. supplies replenishment)
- ...

Support processes

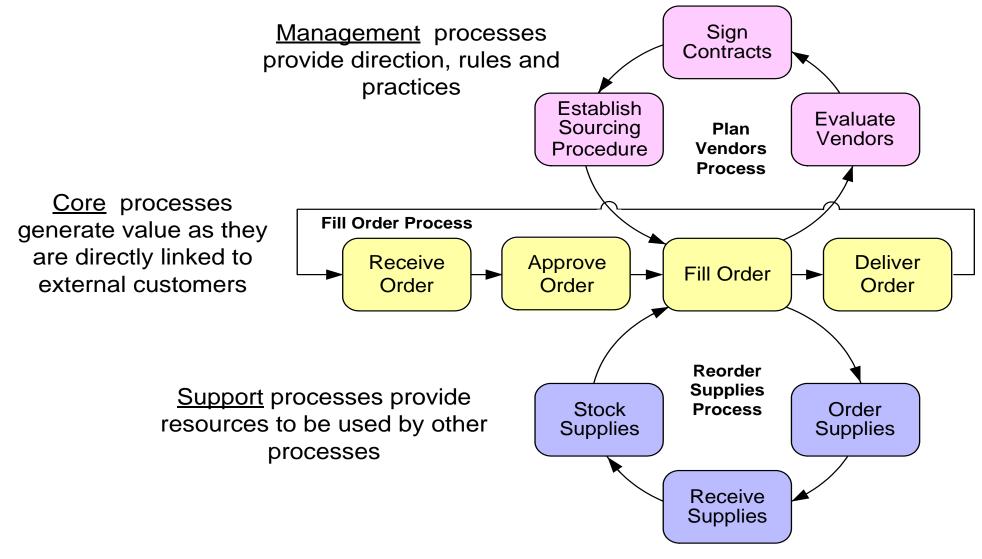
- Purchase-to-pay (indirect procurement, e.g. parts replenishment, operational resources replenishment...)
- HR (policies update, recruitment, induction, probation...)
- •

Management processes

- Suppliers management (suppliers planning, suppliers acquisition...)
- Logistics management (logistics planning, logistics controlling...)
- ..



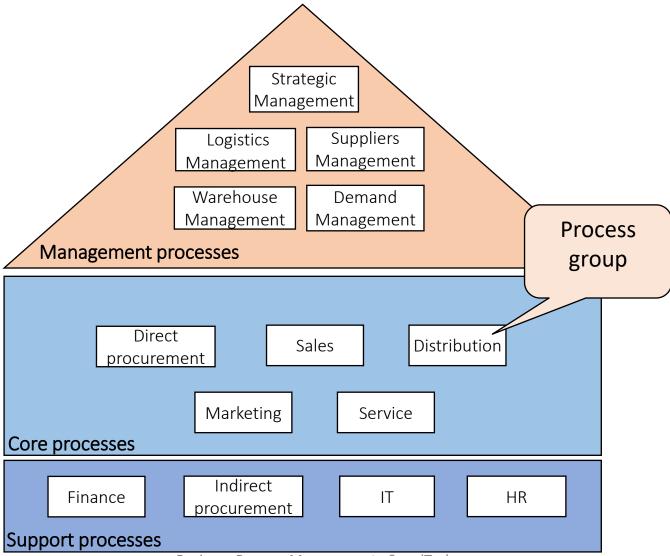
Relations between core, support, management processes





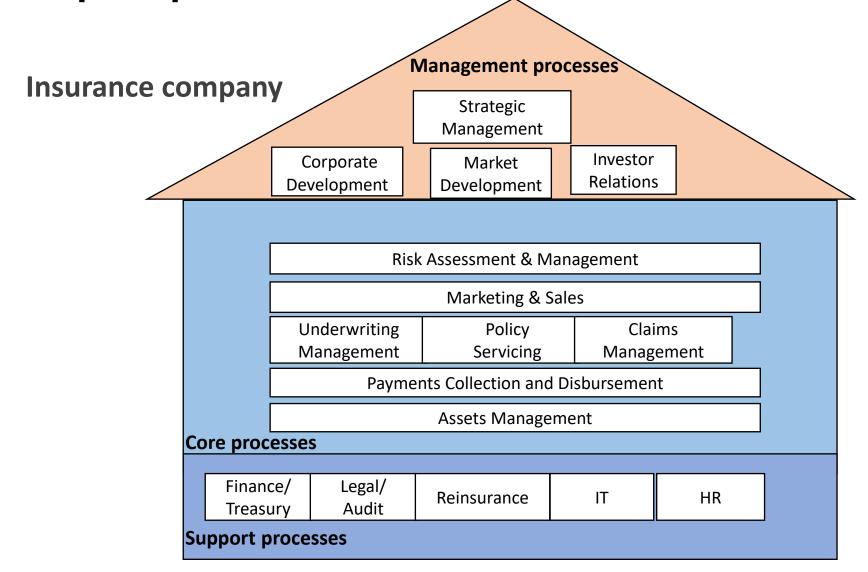
Example: process architecture

Wholesaler





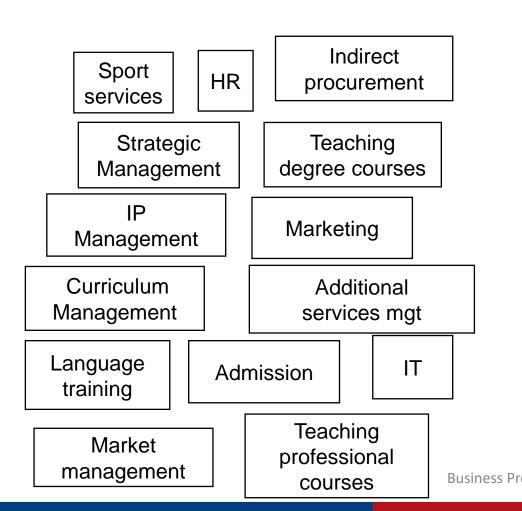
Example: process architecture





Exercise: classify by process type

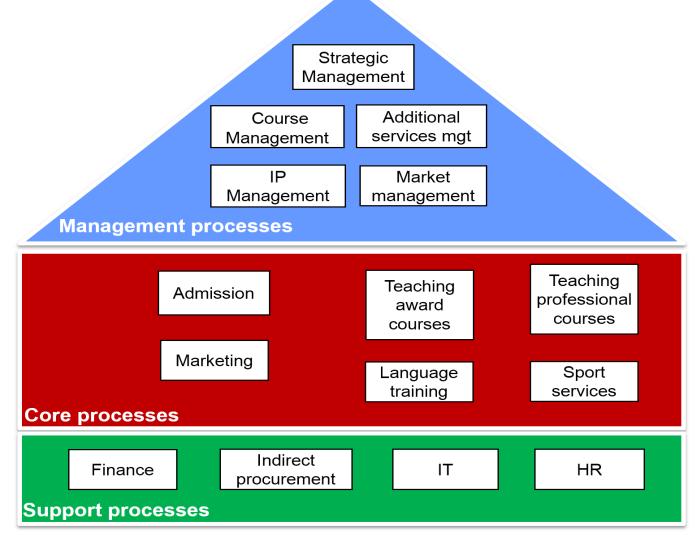
These groups of processes are typically performed at a university. Categorize each process group as core, support or management



Management processes Core processes Support processes Business Process Management - SeoulTech 15



Solution: identify process types

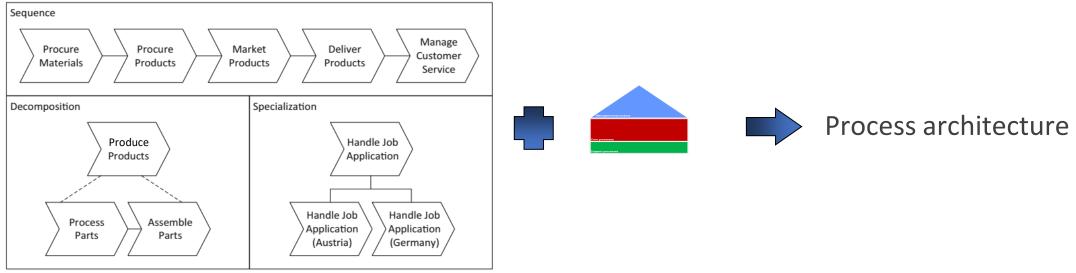




Process scoping

Processes are interdependent \rightarrow insights into interrelations required

- Sequence (Horizontal): logical sequence, output of one process is the input of the next one
 - Upstream downstream → value chains
- <u>Decomposition (Vertical hierarchical)</u>: one specific process is described in more detail in one or more subprocesses
 - main processes sub-processes
- Specialization: general special product/service

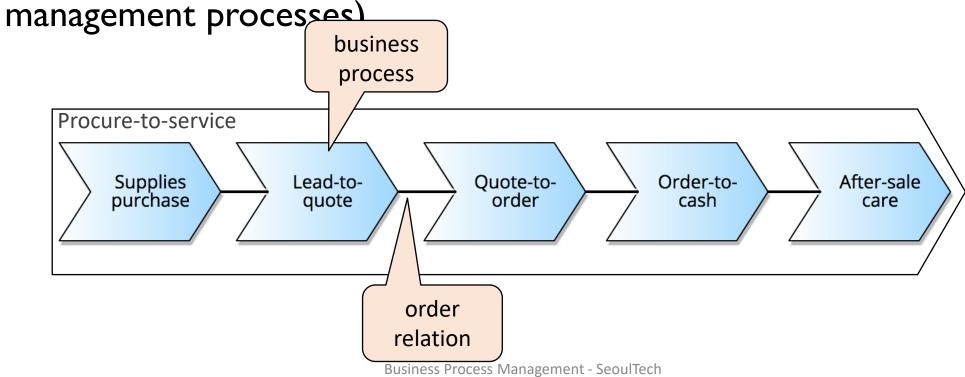




Value chain modeling

• Chain of processes an organization performs to deliver value to customers and stakeholders

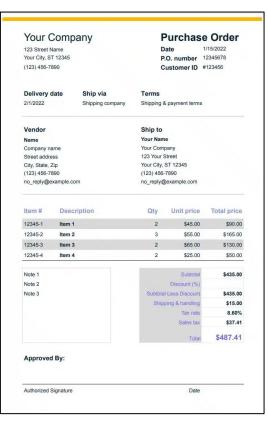
• More generally, a mechanism to group high-level business processes according to an order relation (can be applied to core, support and



Guidelines to identify horizontal boundaries in value chains



- I. Change of key business object in the process
- 2. Change of granularity of main business object
- 3. Change in frequency/time
- 4. Change in intermediate outcome/resolution/objective

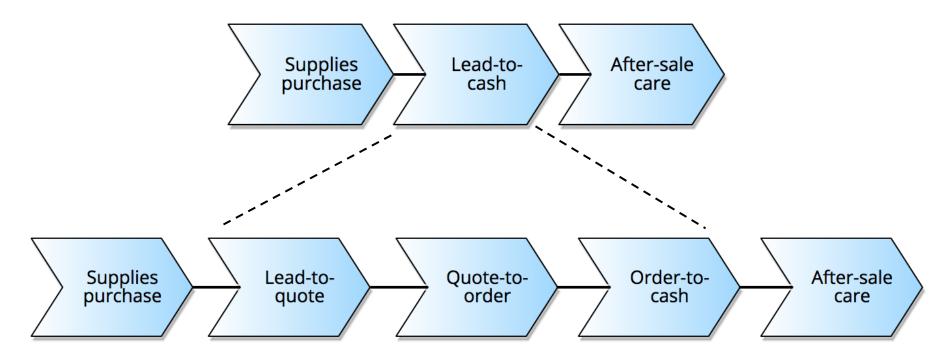




Example: value chain

Wholesaler

Core processes

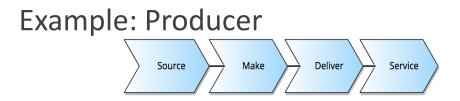


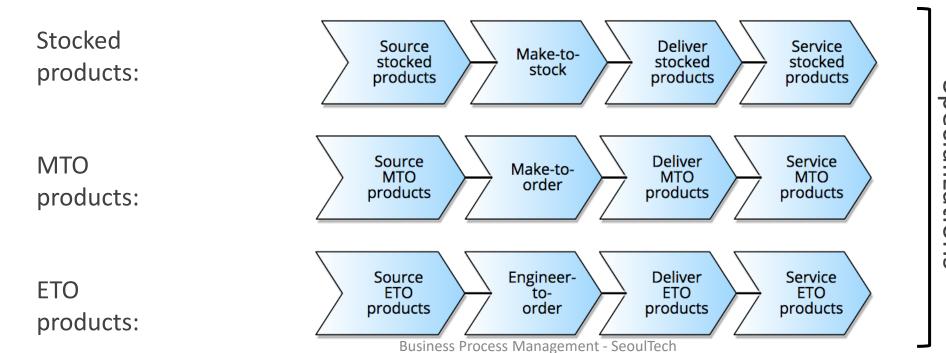


Typical value chains for core processes

Think around three main steps:

- Imagine it (design new product/service)
- Build it (source, assemble, deliver product/service)
- Sell it (market, sell, service product/service)

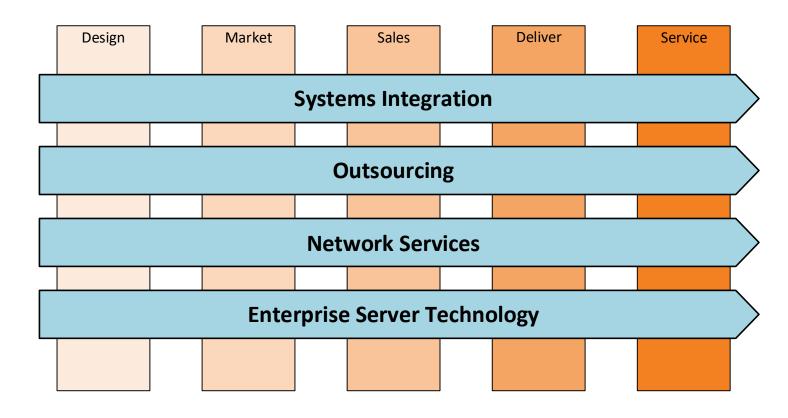






Example: value chains for service provider

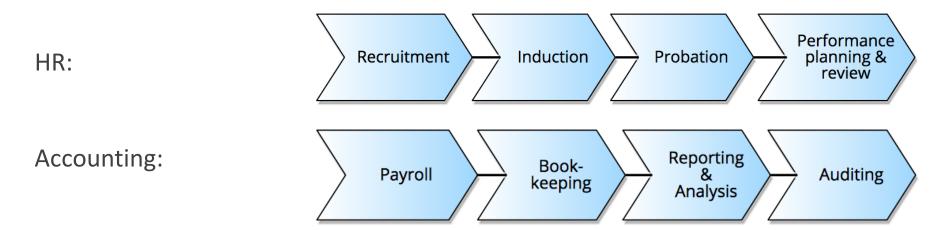
IT service provider



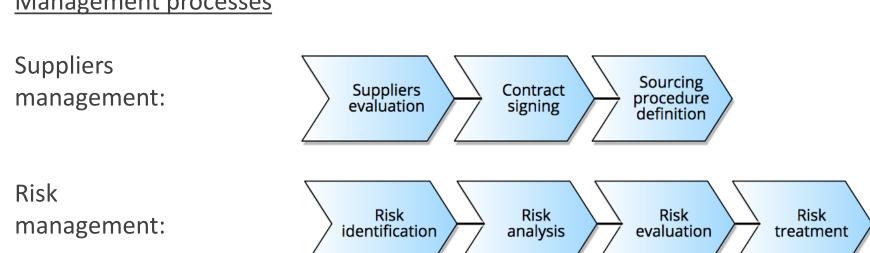
Example: value chain of non-core processes



Support processes

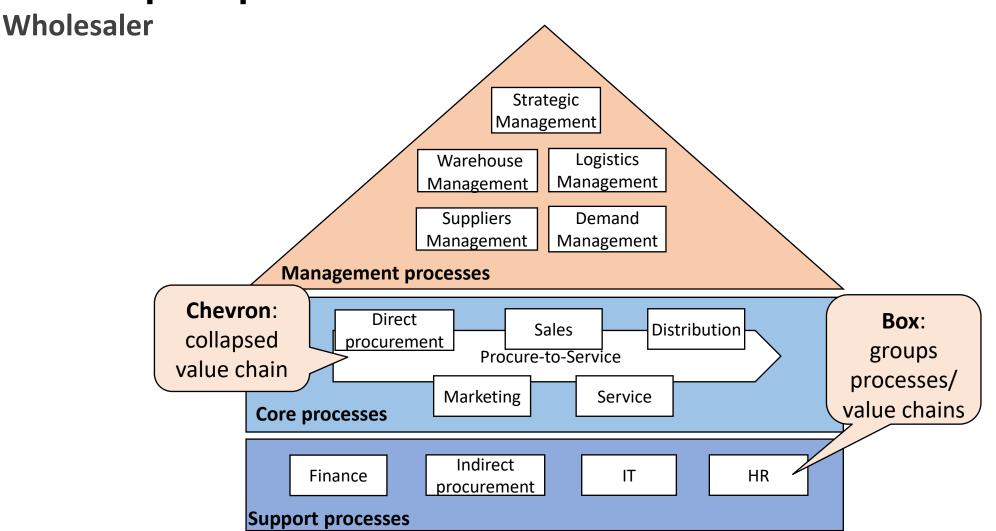


Management processes





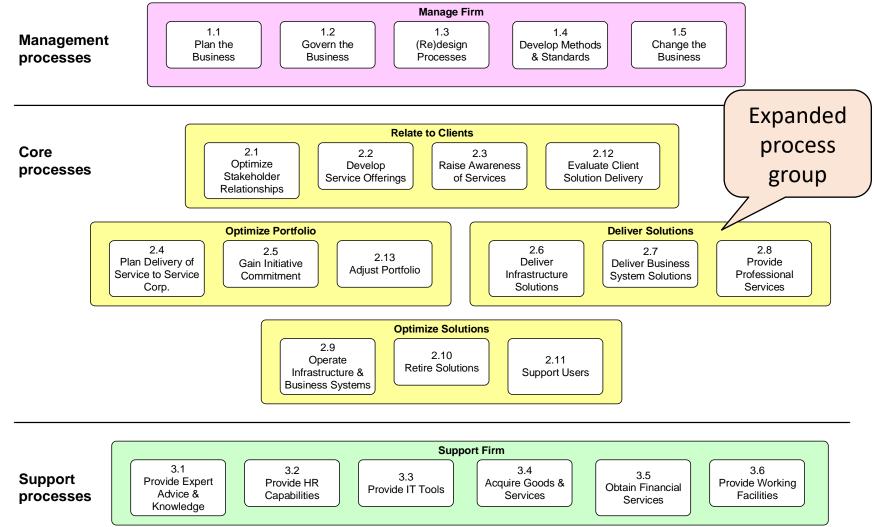
Example: process architecture & value chains





Alternative: process architecture – groups

Consultancy Firm





Typical artifacts for vertical scoping

Value chains

Chains of processes. Stay at a <u>high level</u>. Rule of thumb: 3-7 processes

• Procure-to-service, Risk management

(Root/Main) Processes

Build up value chains and affect each other. They are abstract

• Procure-to-service → Lead-to-quote, Quote-to-order, Order-to-cash

Subprocesses

These are detailed, involve multiple activities and can be layered on different levels.

Order-to-cash → shipment handling, invoicing handling

Tasks

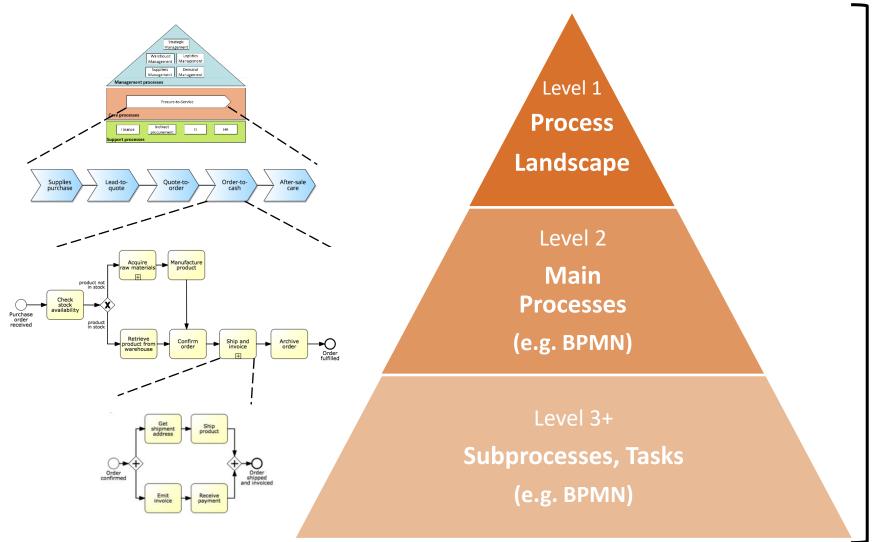
These are atomic and performed by human resources, IT systems or equipment

• E.g. Approve invoice

Typical focus of Process enumeration



Process architecture: hierarchical view



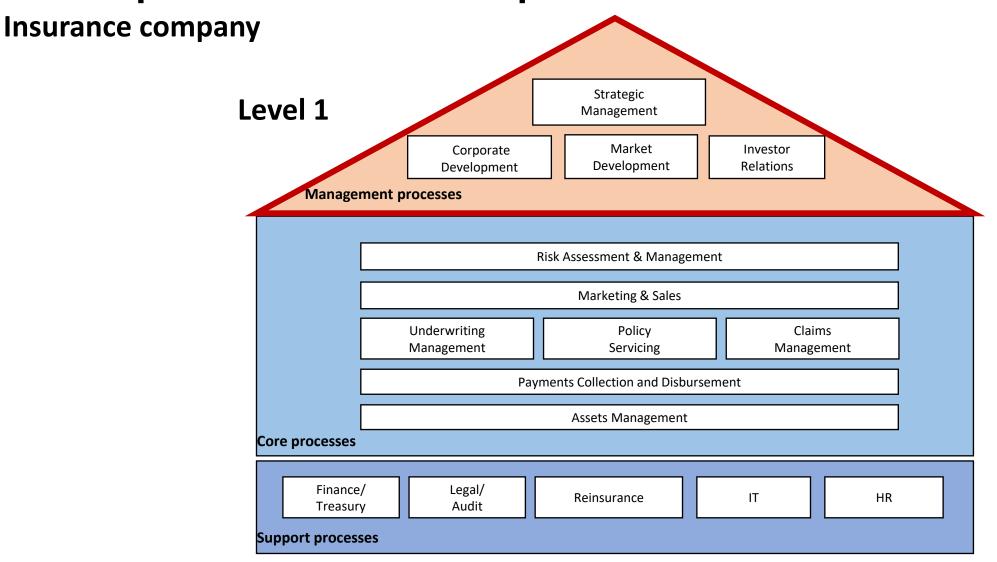
Process hierarchy

How many levels in the process architecture?





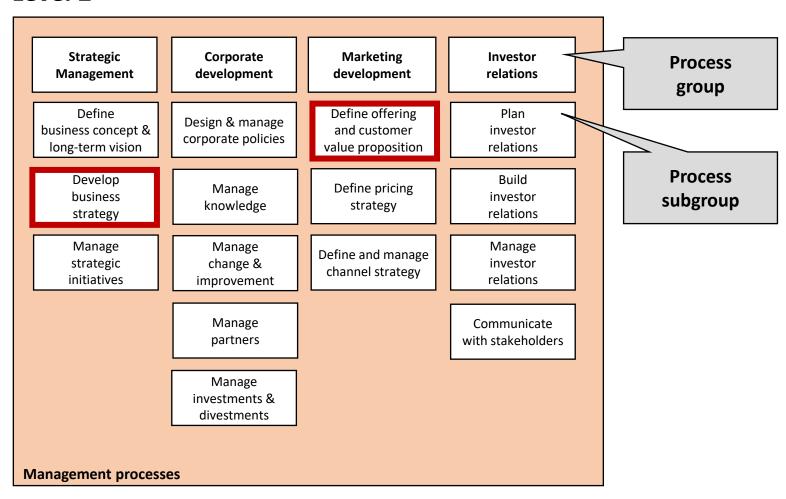
Example: hierarchical process architecture





Example: hierarchical process architecture

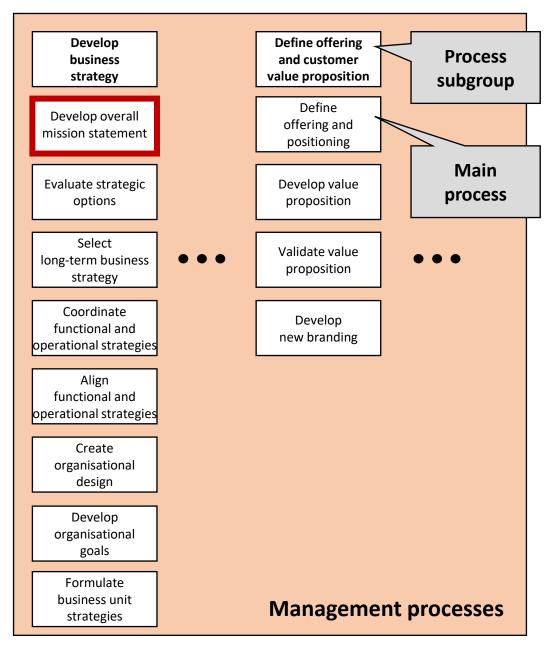
Insurance company Level 2



Example: process architecture

Insurance company

Level 3



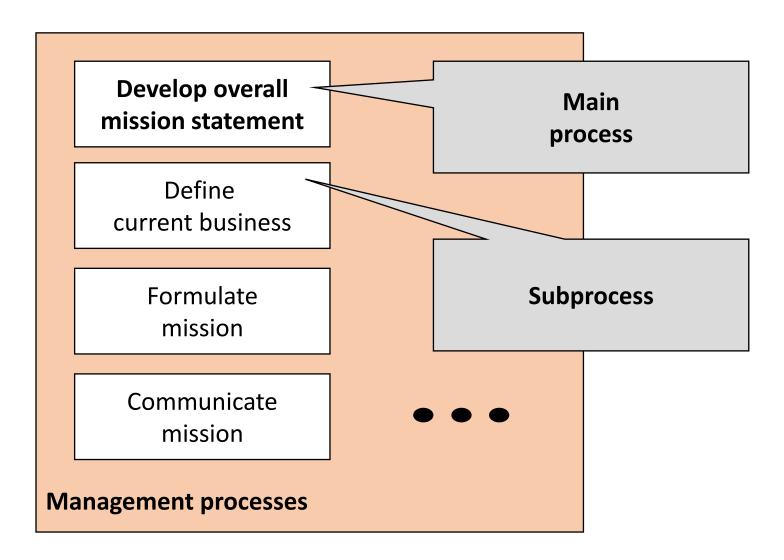




Example: hierarchical process architecture

Insurance company

Level 4





Process identification steps

- I. Definition of Process Architecture (aka Designation)
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- 2. Selection of Processes (aka Prioritization)
 Prioritize processes based on:
 - Importance
 - Health
 - Feasibility





Prioritization

I. Importance

Which processes have greatest impact on the organization's strategic objectives?

2. Health (or Dysfunction)

Which processes are in deepest trouble?

3. Feasibility

Which processes are most susceptible to successful process management?

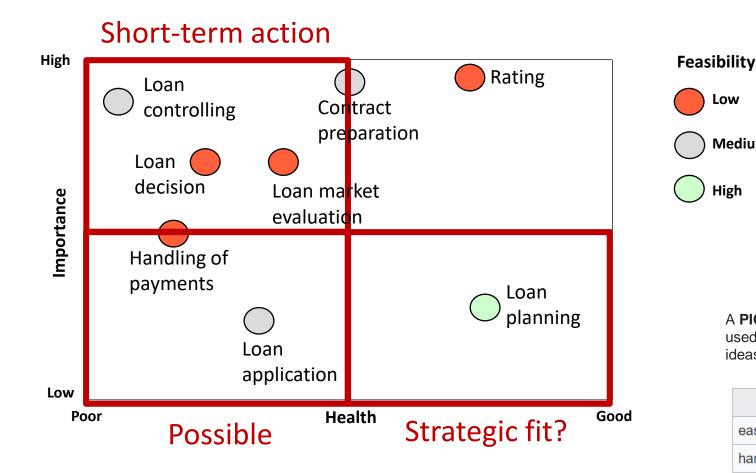


Prioritized process portfolio



Example: prioritized process portfolio

Financial institution



ideas and categorizing them

Low

High

Medium

	Payoff Low	Payoff High
easy to do	Possible	Implement
hard to do	Kill	Challenge

A PICK chart is a Lean Six Sigma tool used for organizing process improvement



Should all prioritized process be managed?



- Managing multiple process simultaneously
 - Increase cost of BPM and resource utilization
 - Increase complexity
 - Can be risky
- Consider starting with a small set of processes
 - Relatively important but not strategically critical processes
 - Dysfunctional but not affected by deep performance issues



Recap

- In this week, we discussed process identification.
- Process architecture definition aims at enumerating major processes of organization.
- Process architecture defines relationship between processes.
- Process selection is concerned with prioritizing processes.
- Priorities upon importance of processes, health, and feasibility of improvements.
- Assessed by process owners or grounded on process performance measures and objectives.
- Process portfolios help in selection of processes for improvement.
- Selected processes become subject of remaining phases of BPM lifecycle.



Further Readings & Resources

- Fundamentals of Business Process Management
 - Chapter 2 Process Identification
 - Learned in this Lecture
 - Section 2.1, 2.2.1, 2.2.2, 2.3.1, 2.3.3
 - Extra content (not evaluated)
 - Section 2.2.3, 2.2.4, 2.2.5, 2.3.2



Next Week

Essential Process Modeling

