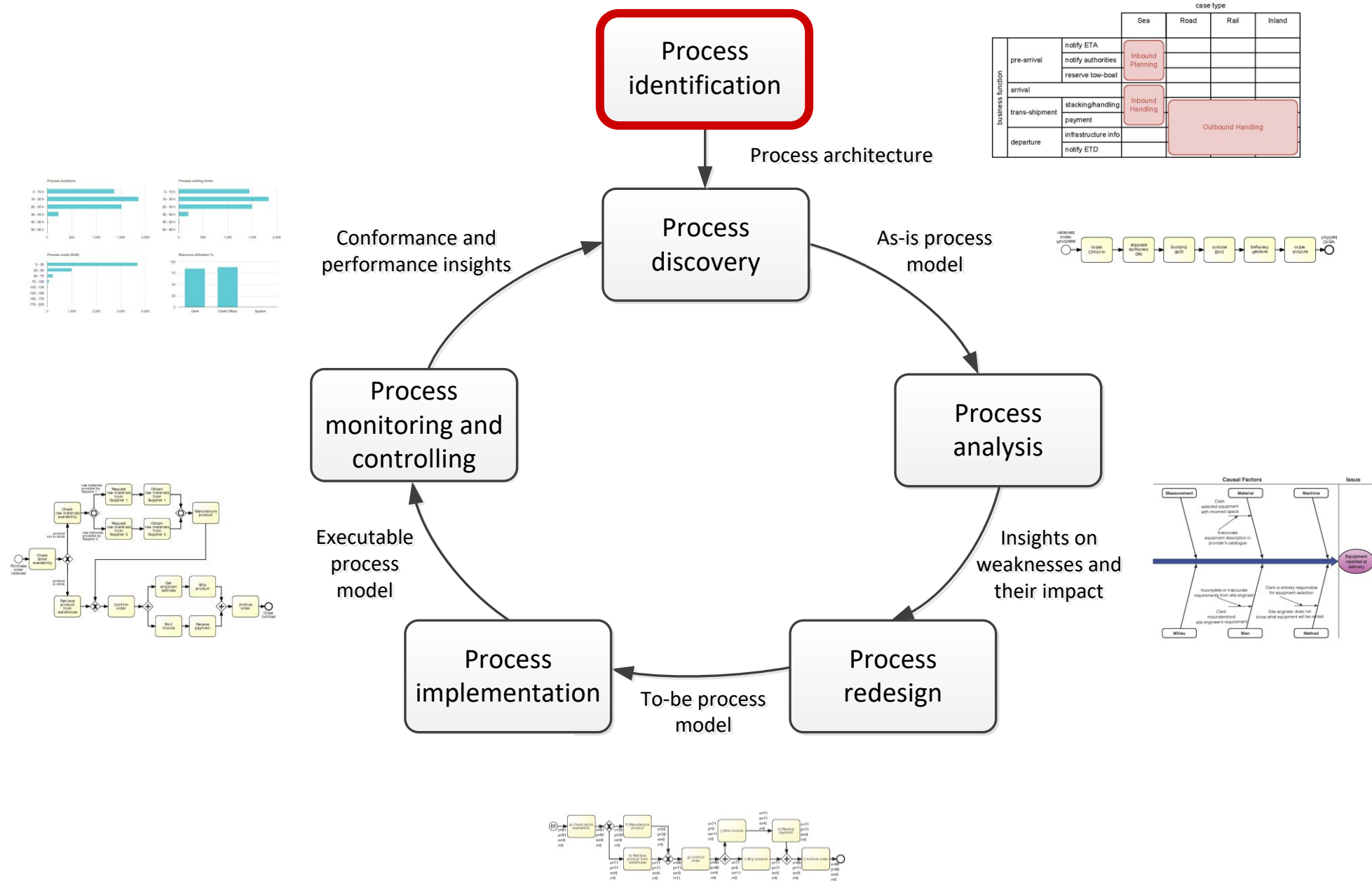
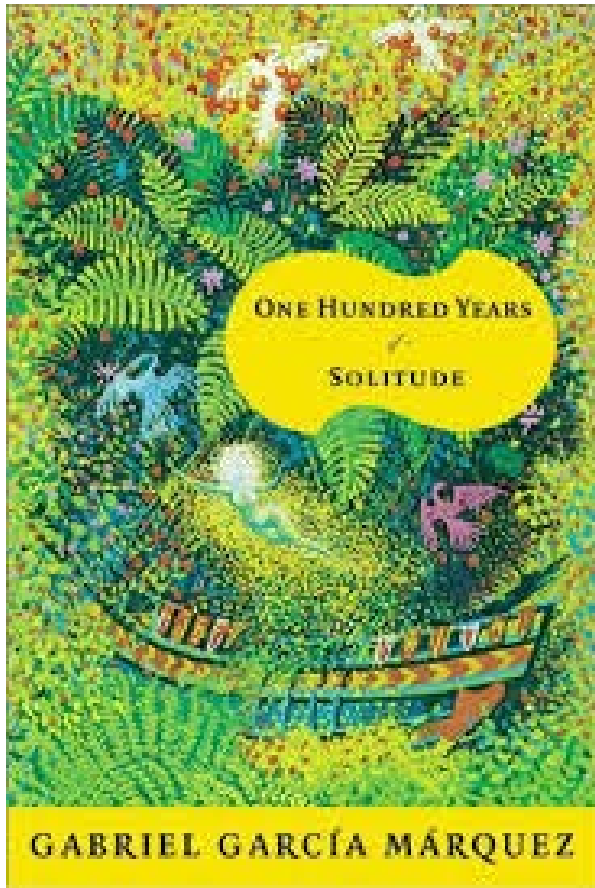


# Business Process Management (3)

# The BPM lifecycle





**Many years later, as he faced the firing squad, Colonel Aureliano Buendía was to remember that distant afternoon when his father took him to discover ice. At that time Macondo was a village of twenty adobe houses, built on the bank of a river of clear water that ran along a bed of polished stones, which were white and enormous, like prehistoric eggs. The world was so recent that many things lacked names, and in order to indicate them it was necessary to point to them with the finger.**

# Process identification

## What?

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

## Why?

1. Understand the organization
2. Maximize value of BPM projects



# Process identification steps

## 1. Designation step

- Enumerate main processes
- Determine process scope



Process  
Architecture

## 2. Prioritization step (aka Process selection)

Prioritize processes based on:

- Importance
- Health
- Feasibility



Prioritized  
Process  
Portfolio

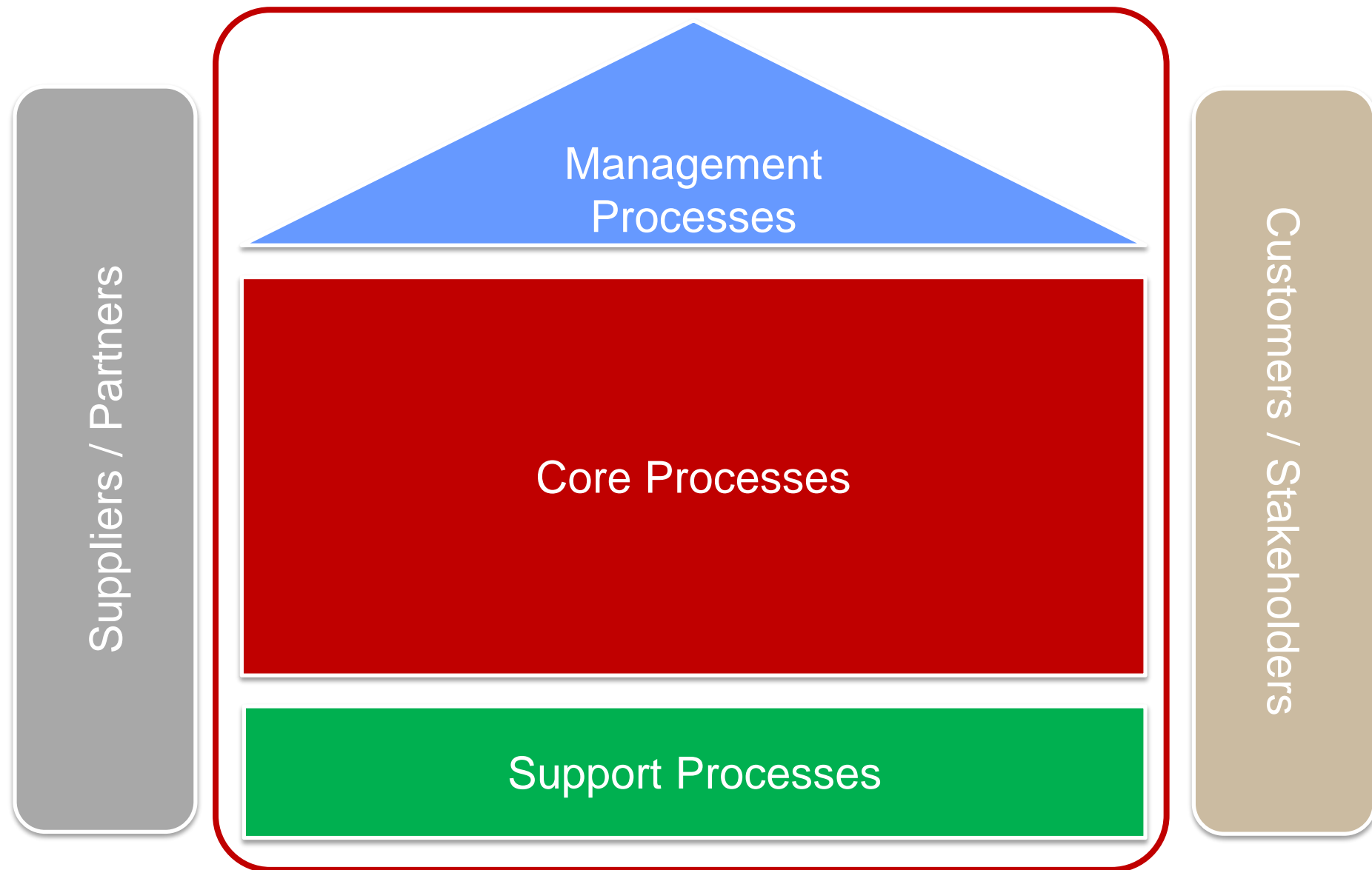
# Process Enumeration

“Most businesses have just three core processes:

1. Sell stuff
2. Deliver stuff
3. Making sure you have stuff to sell and deliver”

Geary Rummler

# Porter: Types of processes



# Example: core, support and management processes

## Wholesaler

### Core processes

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

### Support processes

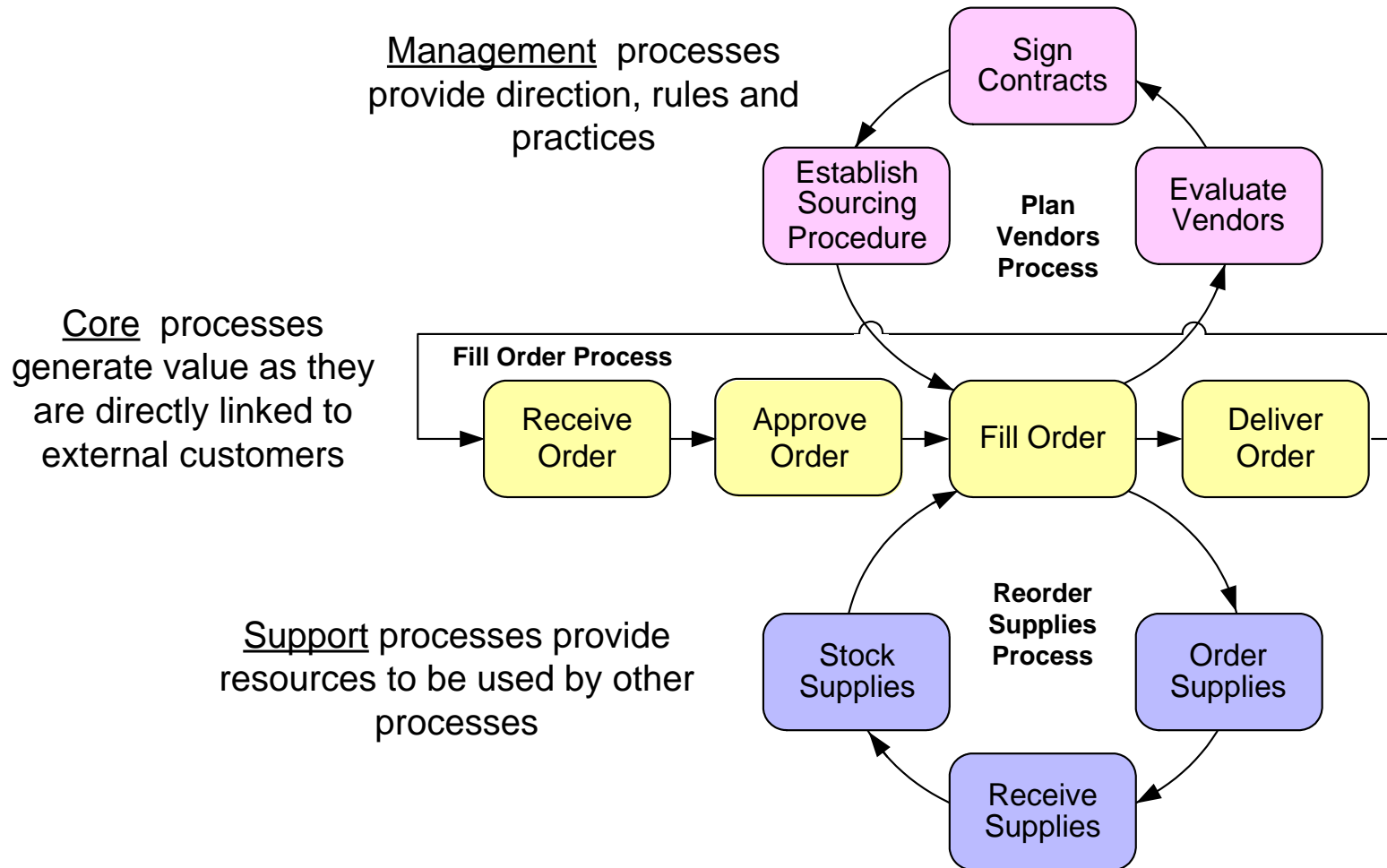
- Purchase-to-pay (indirect procurement, e.g. parts replenishment, operational resources replenishment...)
- HR (policies update, recruitment, induction, probation...)
- ...

### Management processes

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

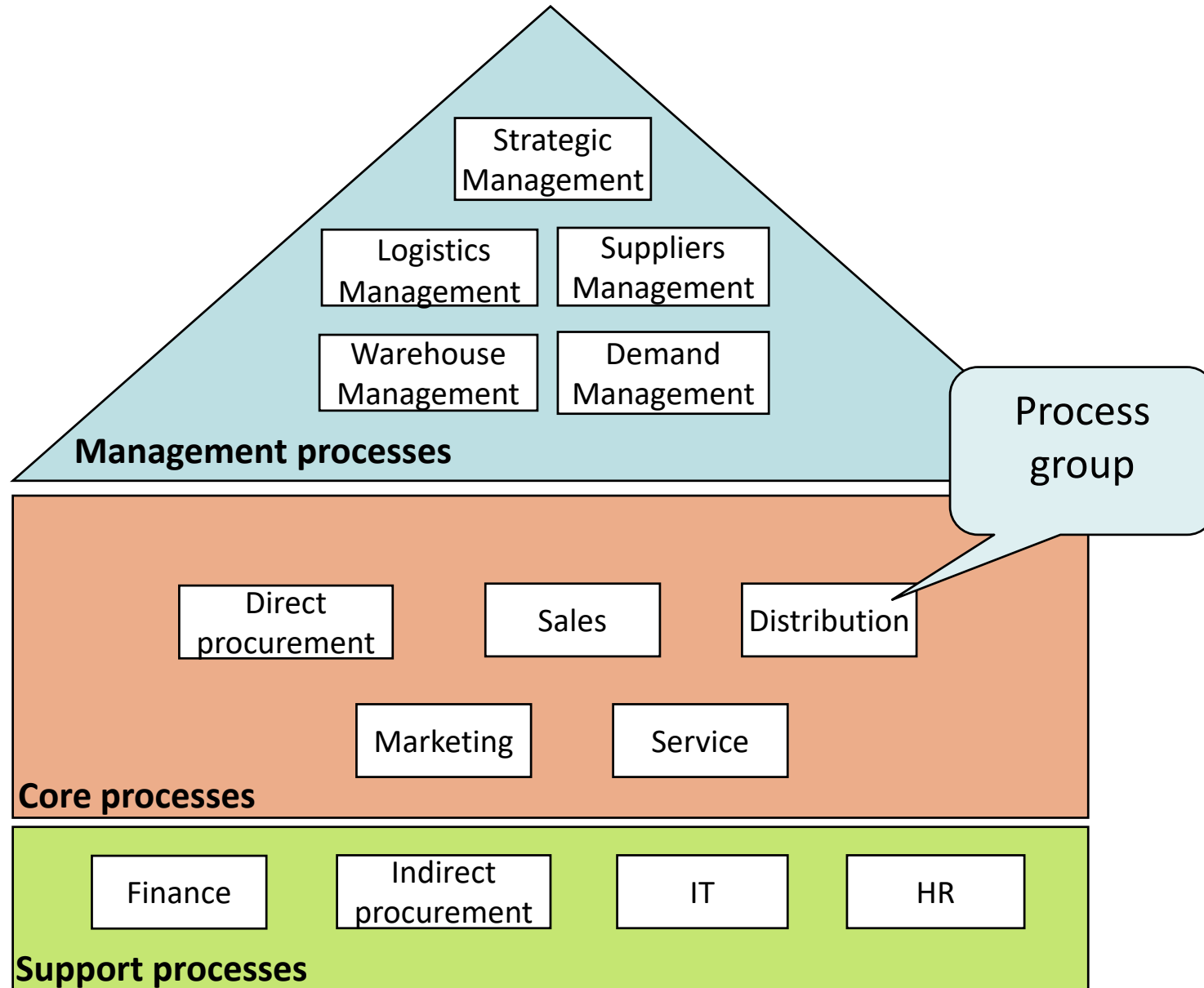


# Relations between core, support, mgt processes



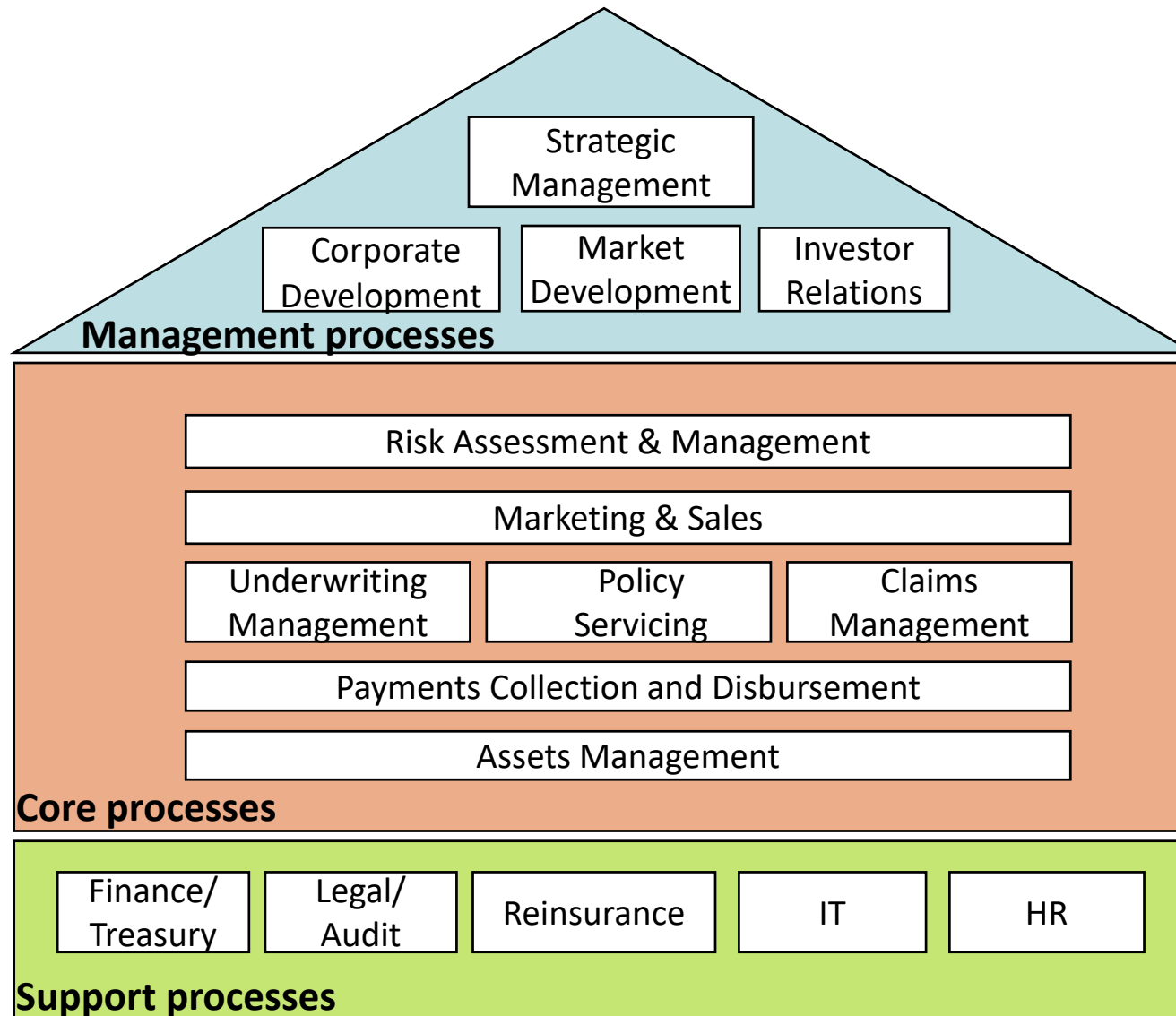
# Example: process architecture

## Wholesaler



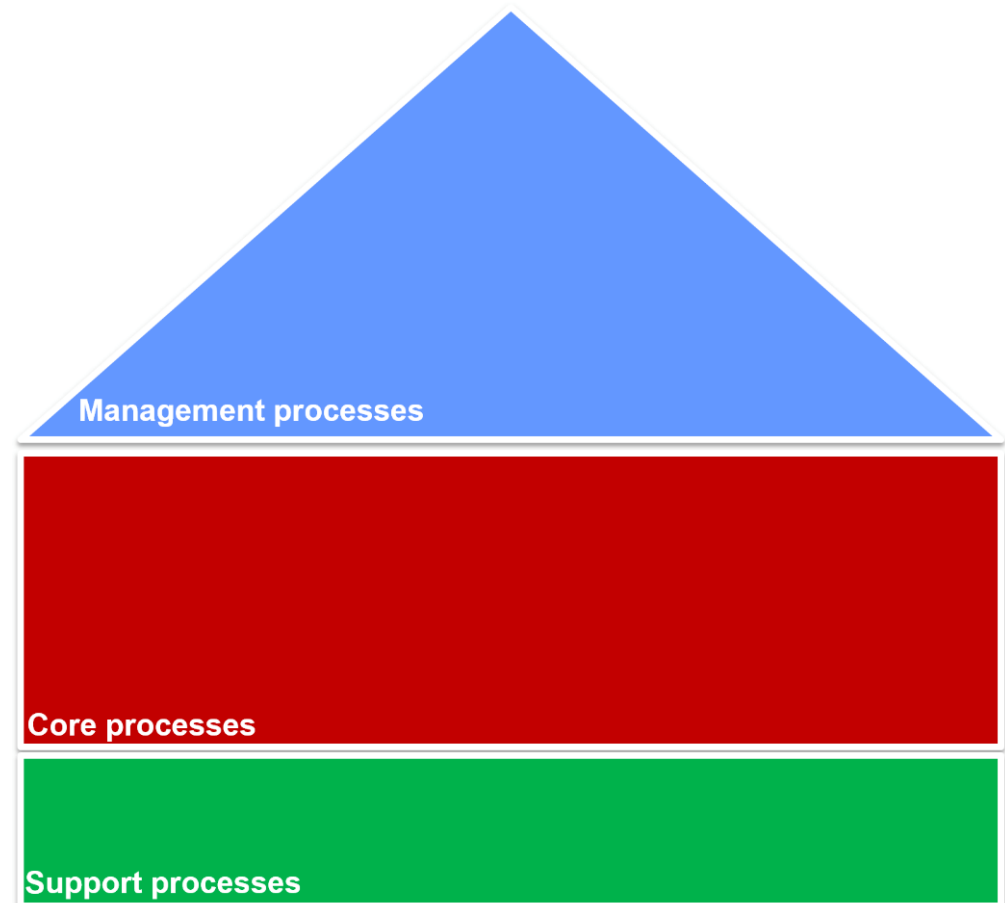
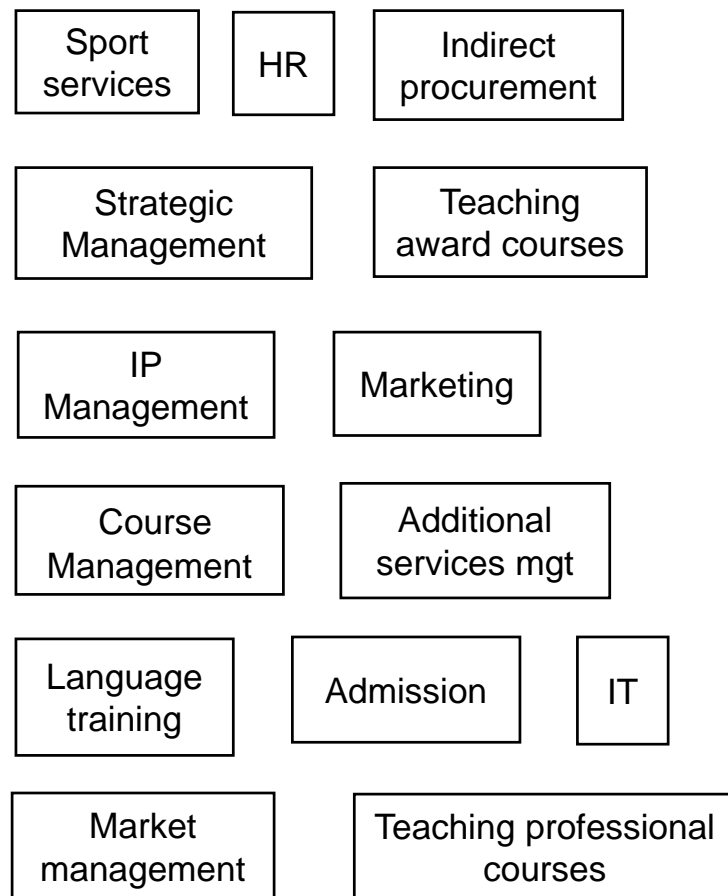
# Example: process architecture

## Insurance company

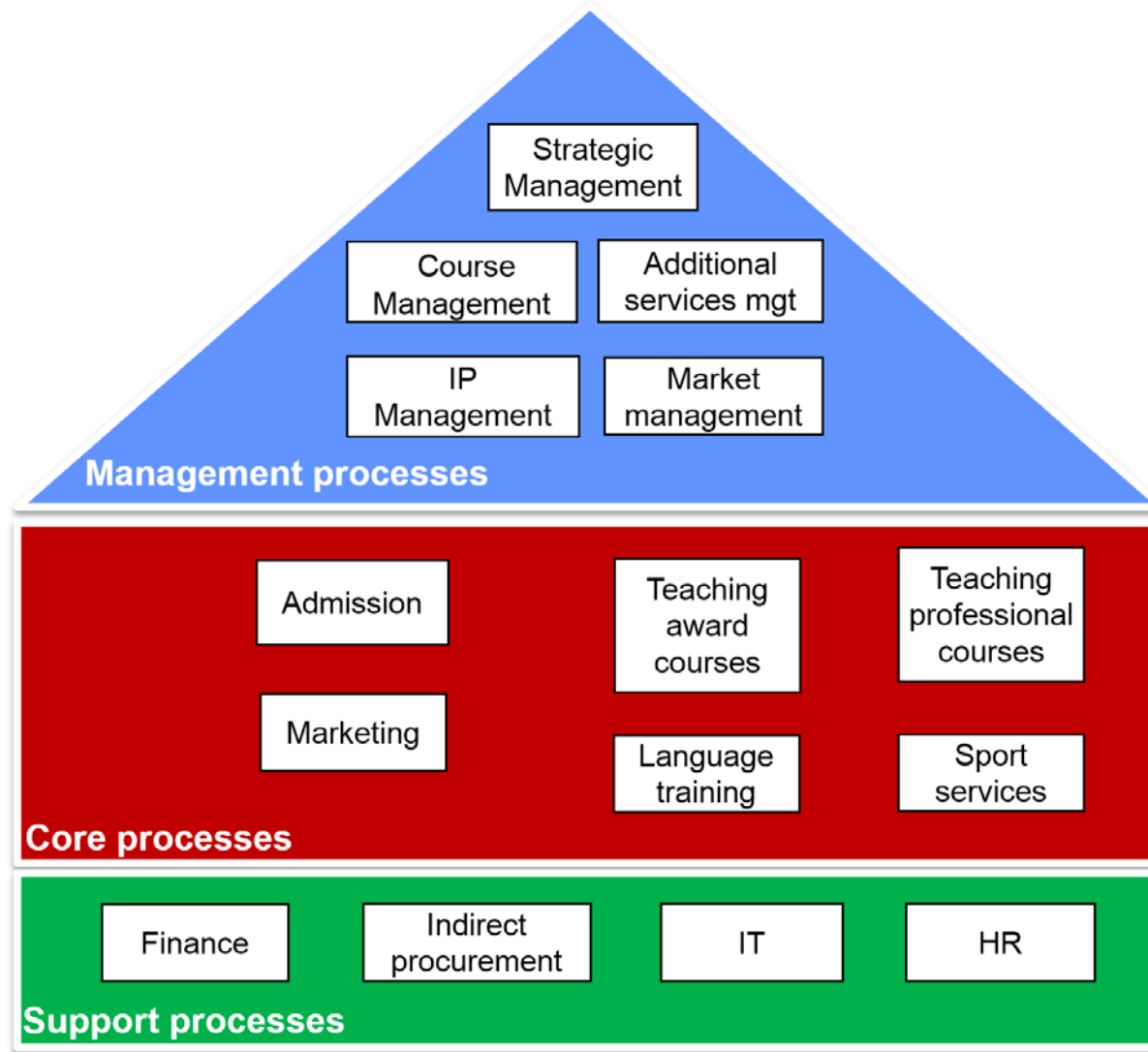


# Exercise: classify by process type

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



# Solution: identify process types



# Process scoping

Processes are interdependent → insights into interrelations required

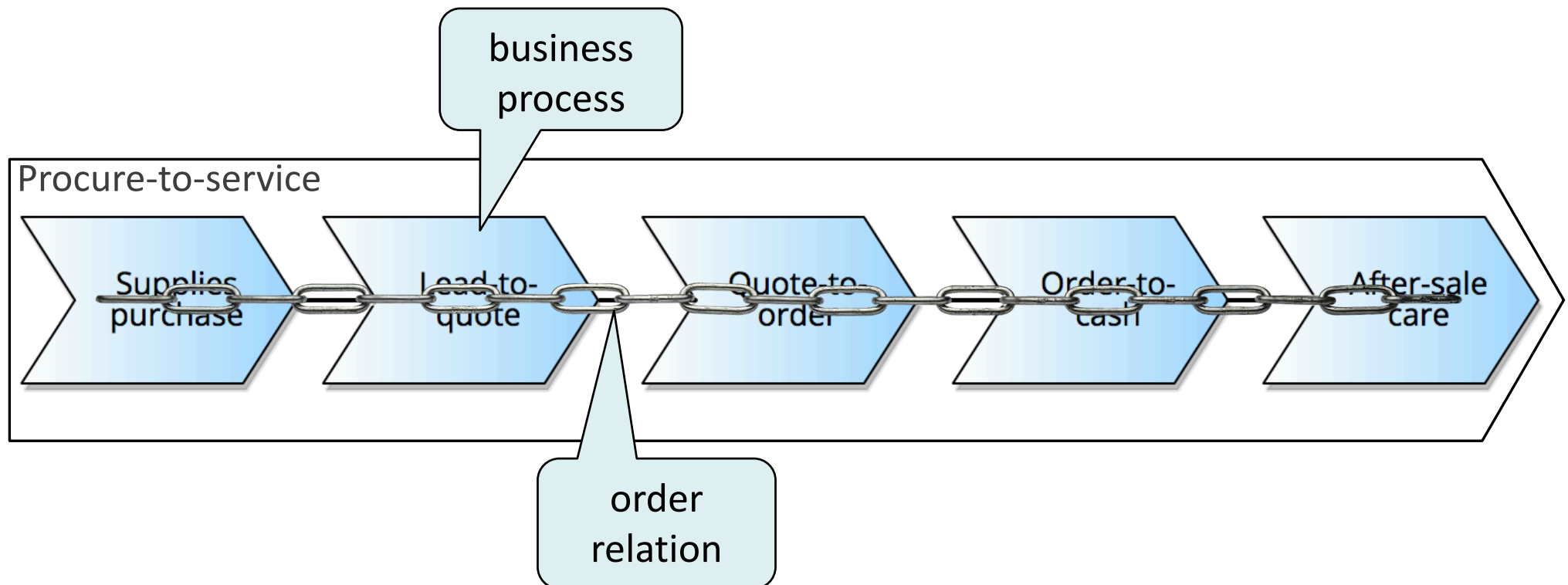
- Specialization: general – special product/service
- Horizontal: upstream – downstream processes and their value chains
- Vertical: main processes – sub-processes



Process architecture

# Value chain modeling

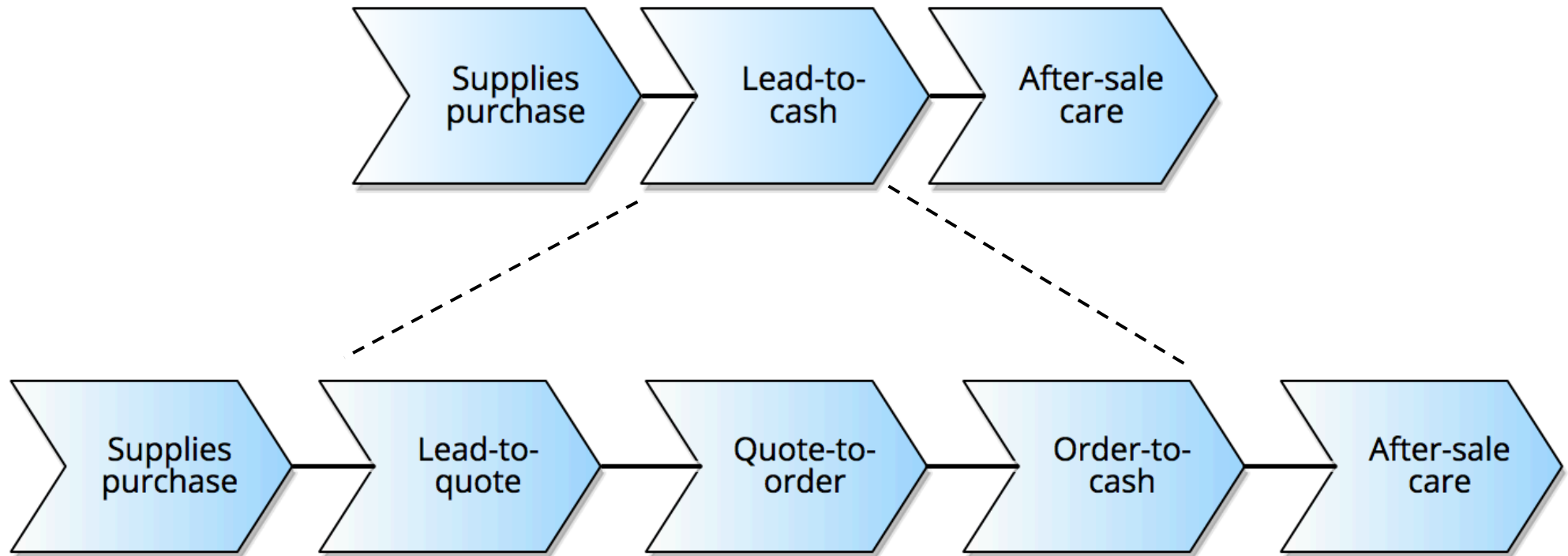
- Chain of *processes* an organization performs to deliver value to customers and stakeholders
- More generally, a mechanism to group high-level business processes according to an order relation (can be applied to core, support and management processes)



# Example: value chain

Wholesaler

Core processes



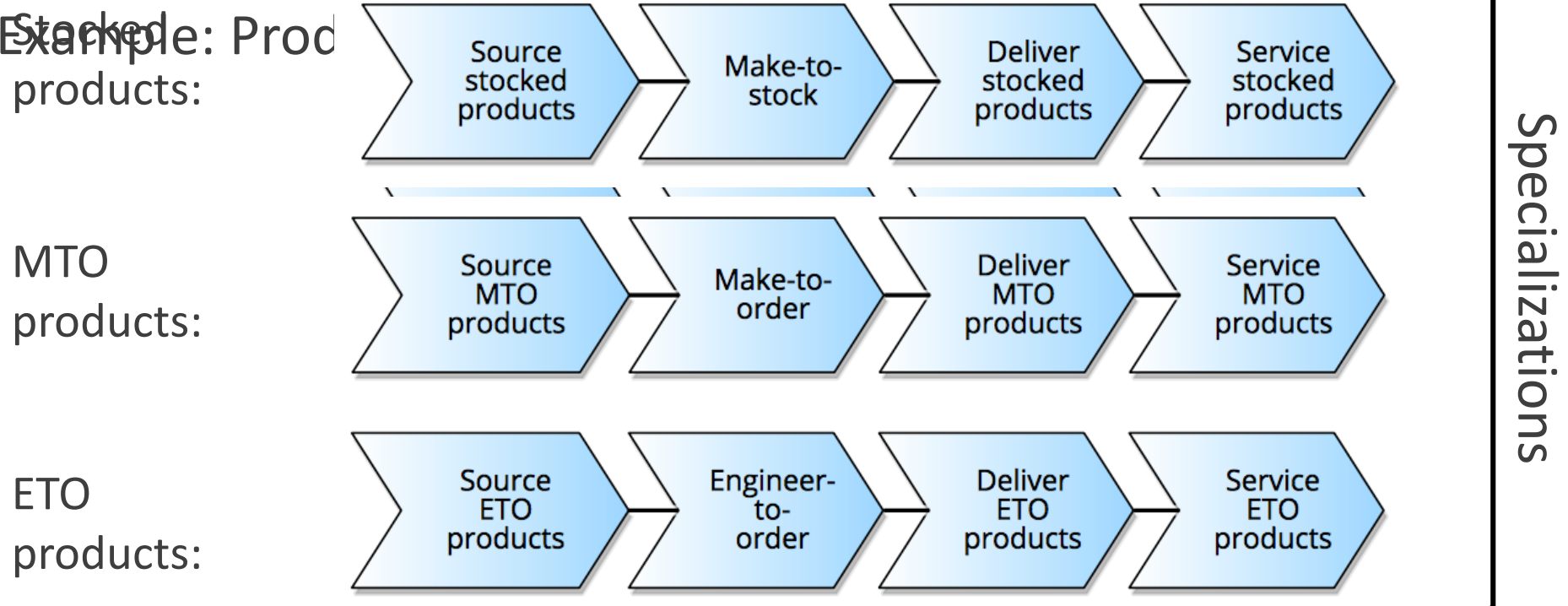


# Typical value chains for core processes

Think around three main steps:

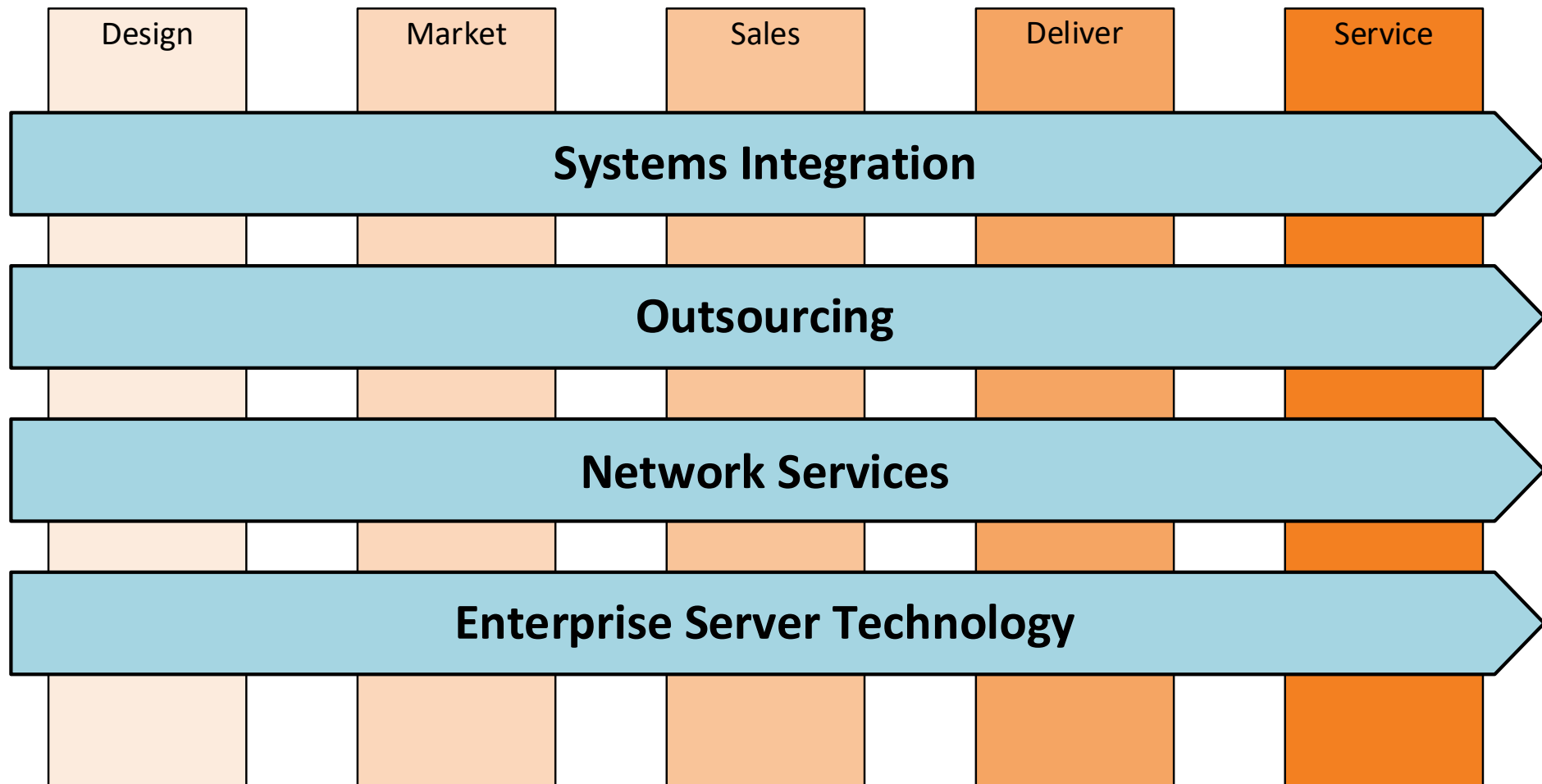
- Imagine it (design new product/service)
- Build it (source, assemble, deliver product/service)
- Sell it (market, sell, service product/service)

Example: Product



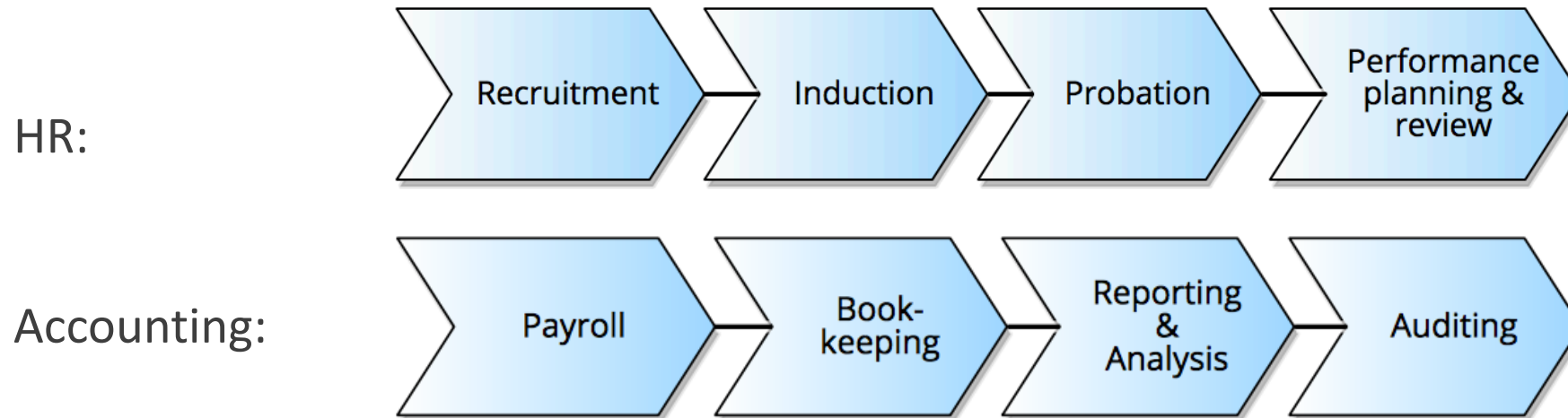
# Example: value chains for service provider

IT service provider

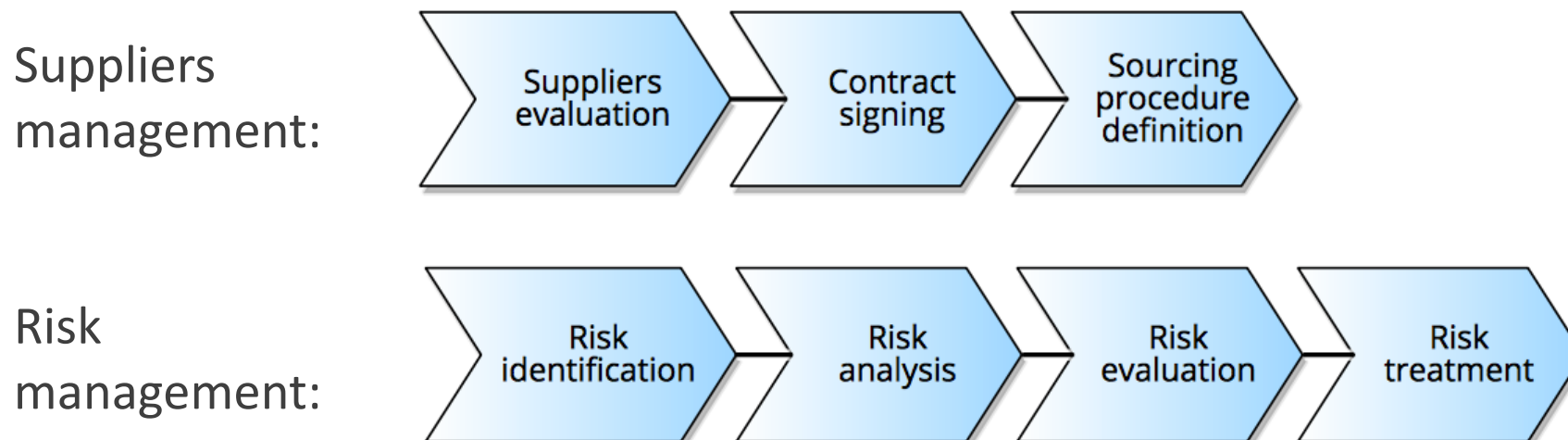


# Example: value chain of non-core processes

## Support processes

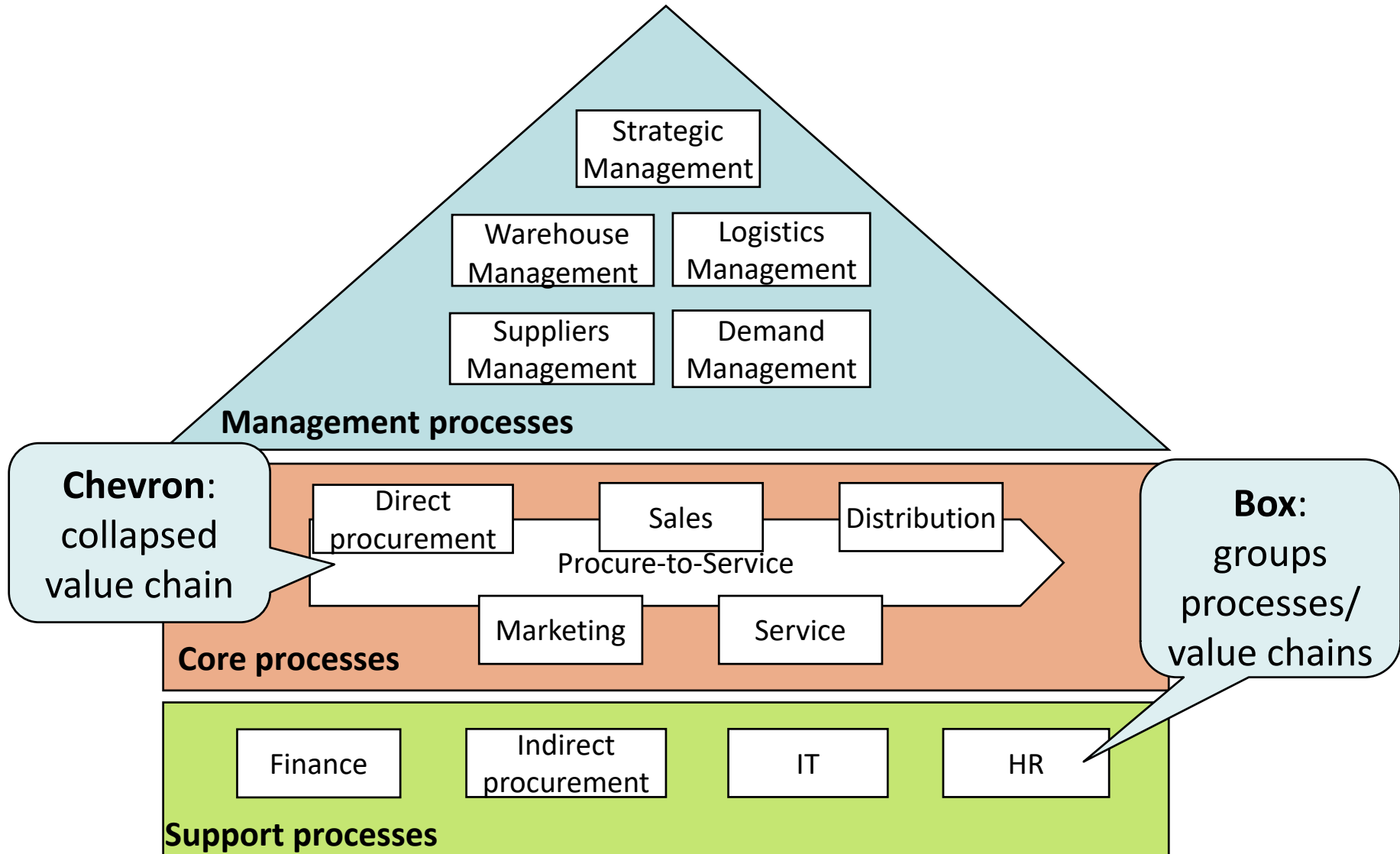


## Management processes



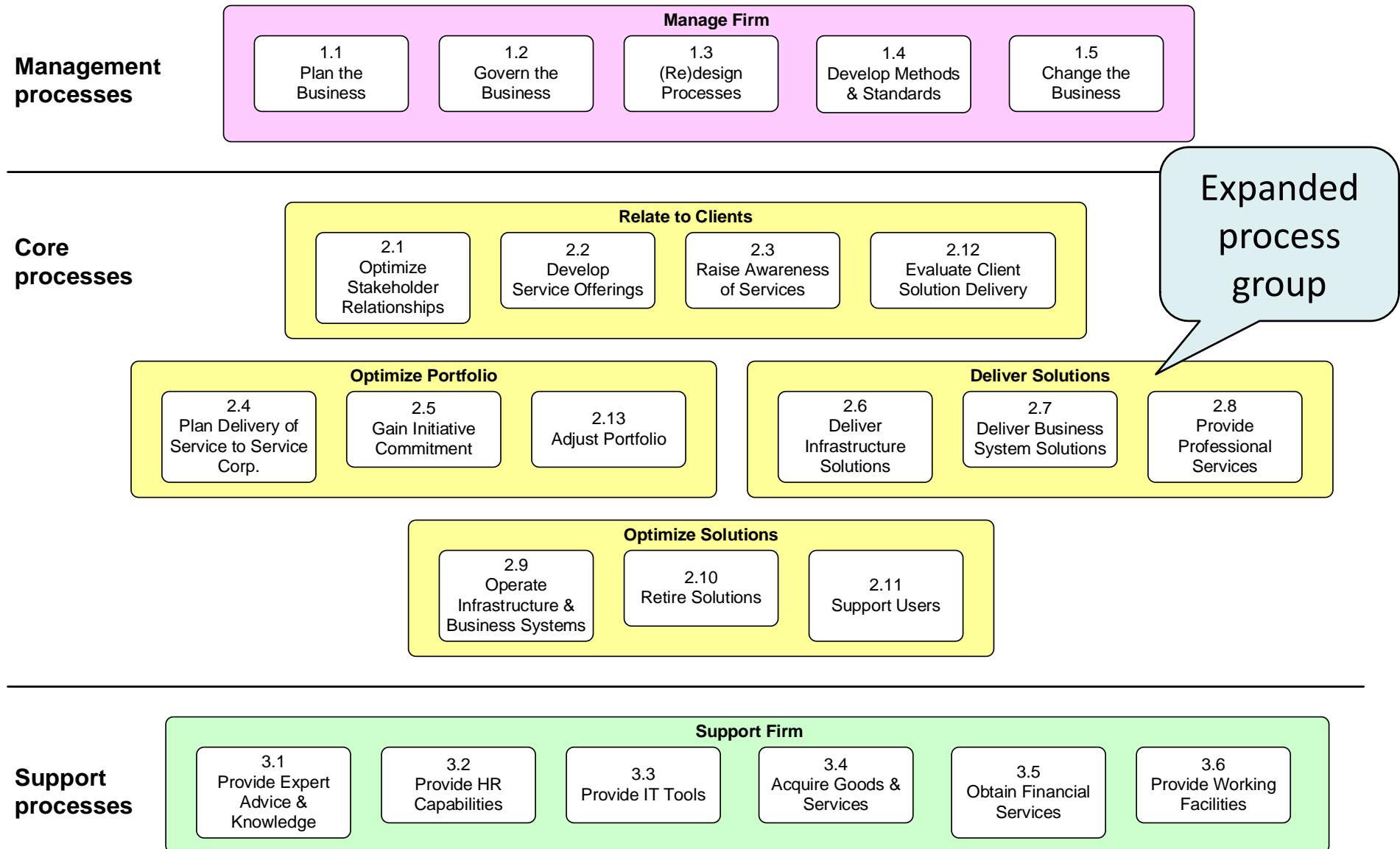
# Example: process architecture & value chains

## Wholesaler



# Alternative: process architecture – groups

## Consultancy Firm



# Typical artifacts for vertical scoping

## Value chains

Chains of processes. Stay at a high level. 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

- *Lead-to-quote, Quote-to-order, Order-to-cash*

## Subprocesses

Build up processes. They are detailed, involve multiple activities and can be layered on different levels of abstraction (i.e. sub-subprocesses)

- *Order shipment, invoicing*

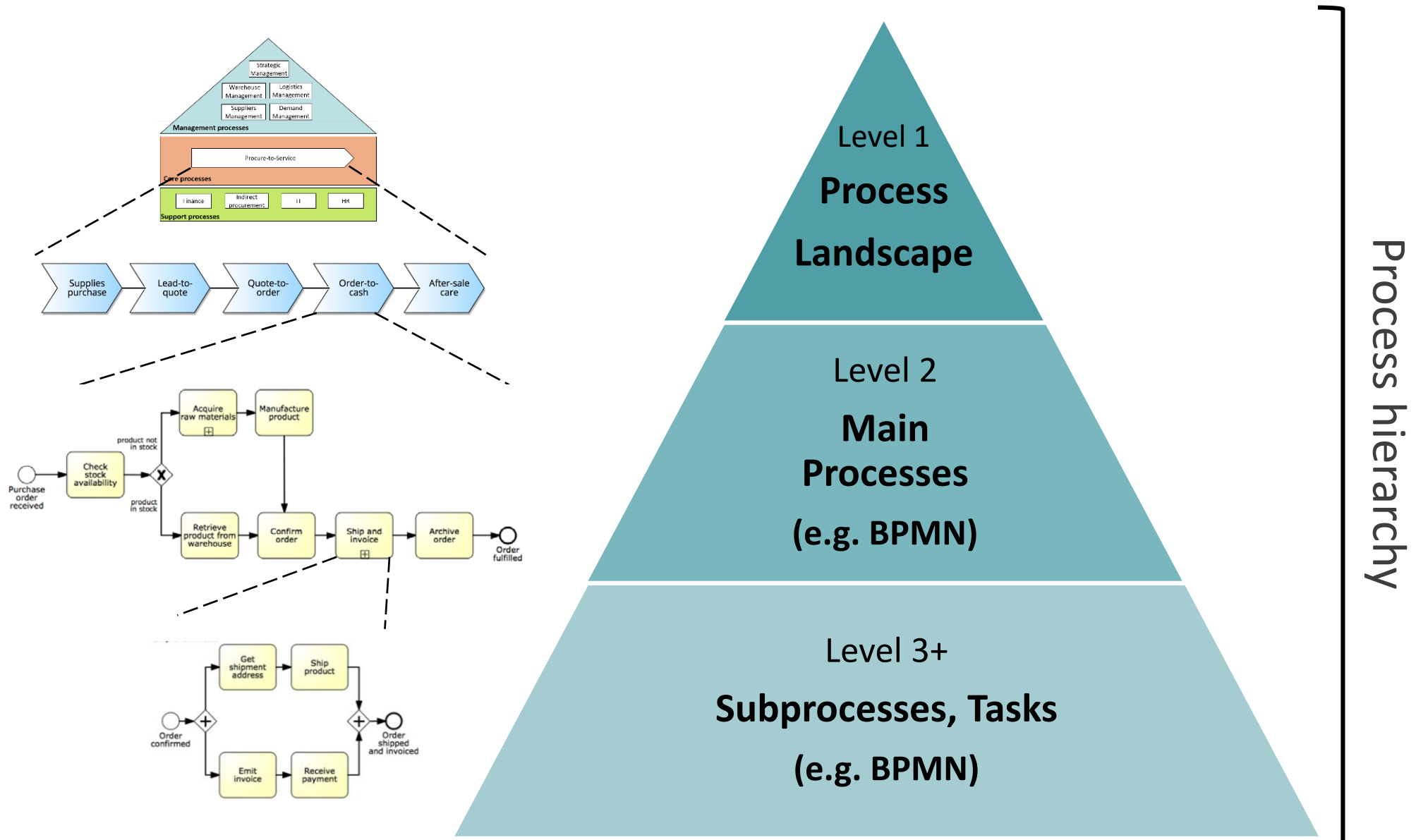
## Process tasks

Build up processes and sub-processes. They are atomic and performed by human beings, IT systems or equipment

- *Approve invoice*

Typical focus of Process enumeration

# Process architecture: hierarchical view



How many levels in the process architecture?

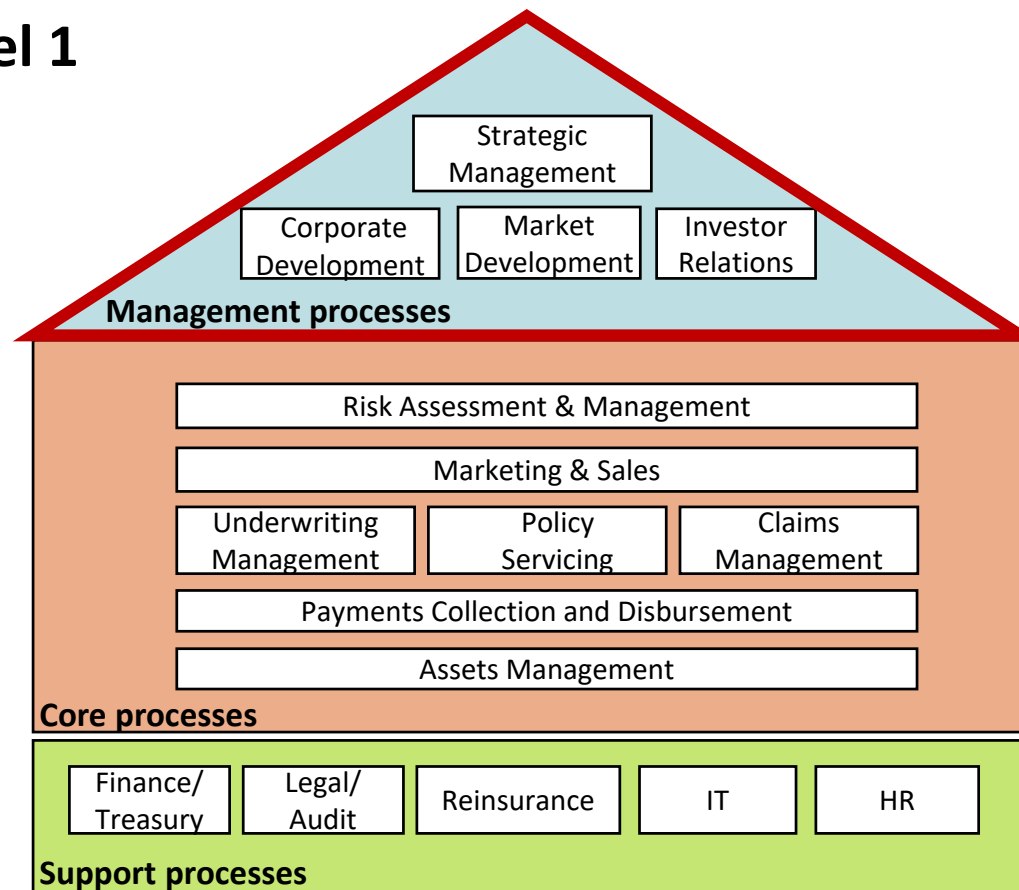




# Example: hierarchical process architecture

## Insurance company

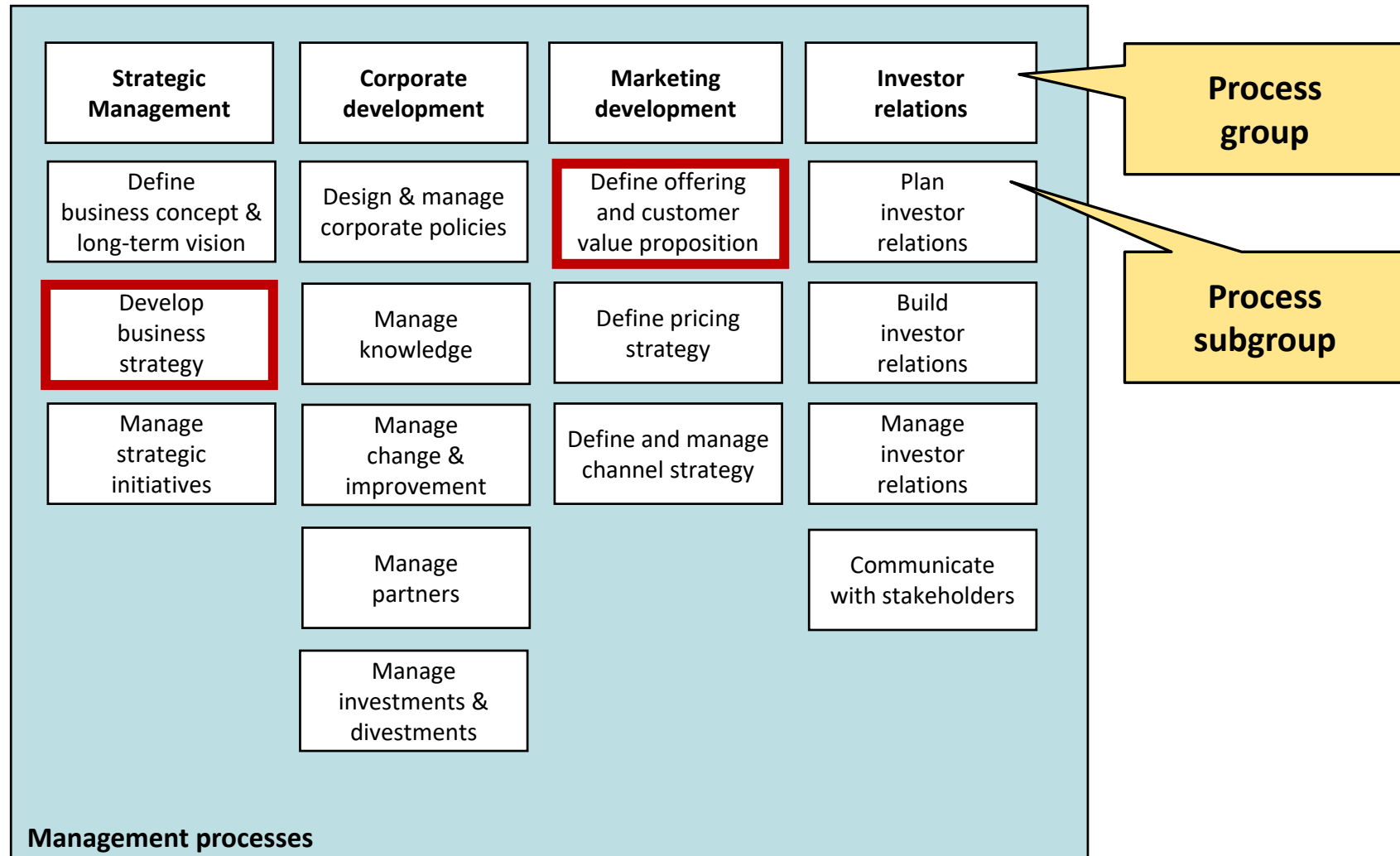
### Level 1



# Example: hierarchical process architecture

## Insurance company

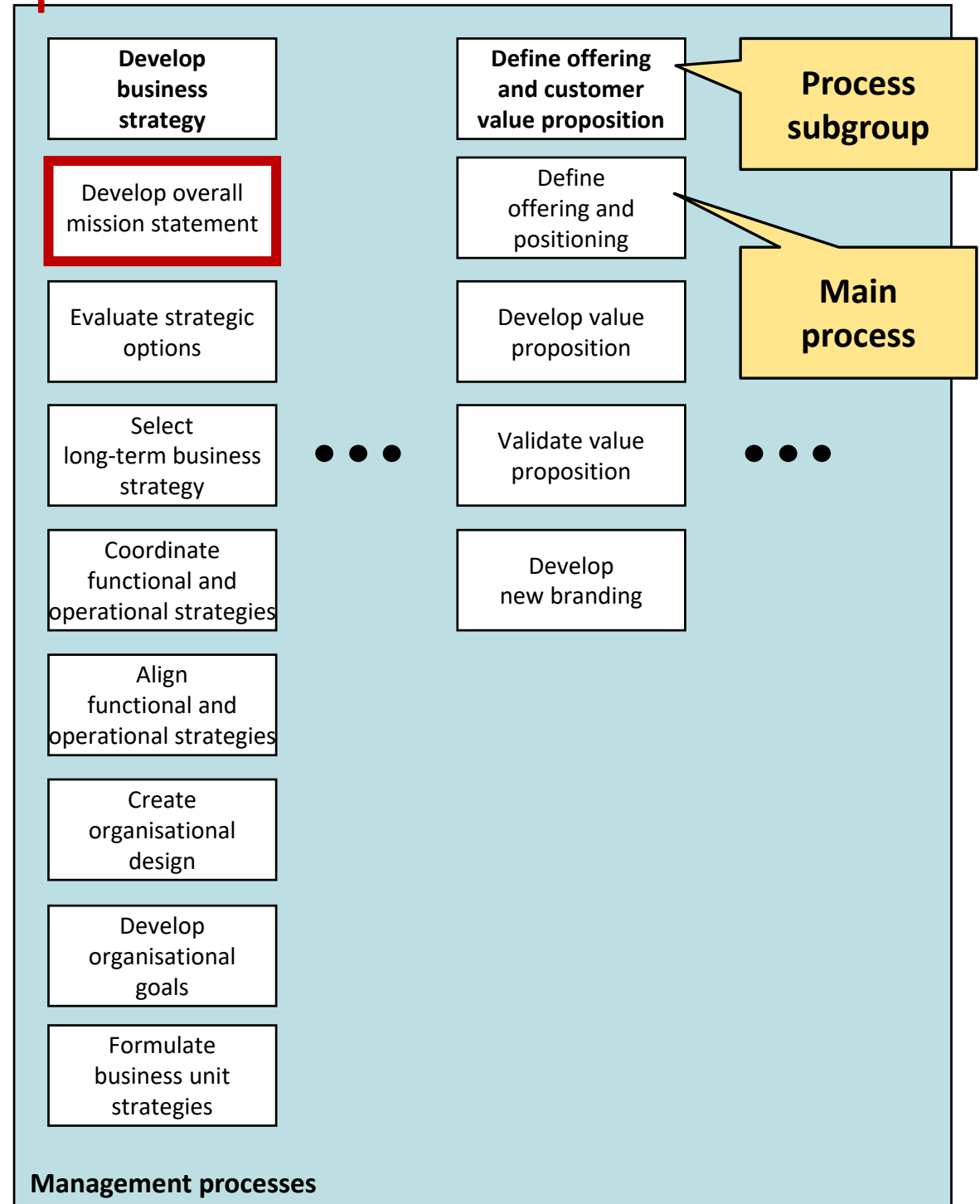
### Level 2



# Example: hierarchical process architecture

Insurance company

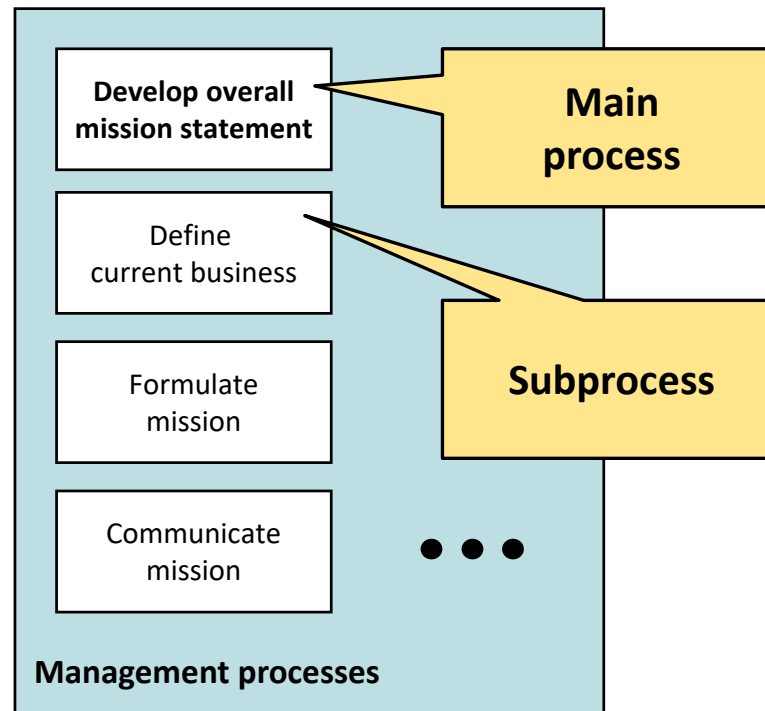
Level 3



# Example: hierarchical process architecture

Insurance company

## Level 4



# Designation via reference models

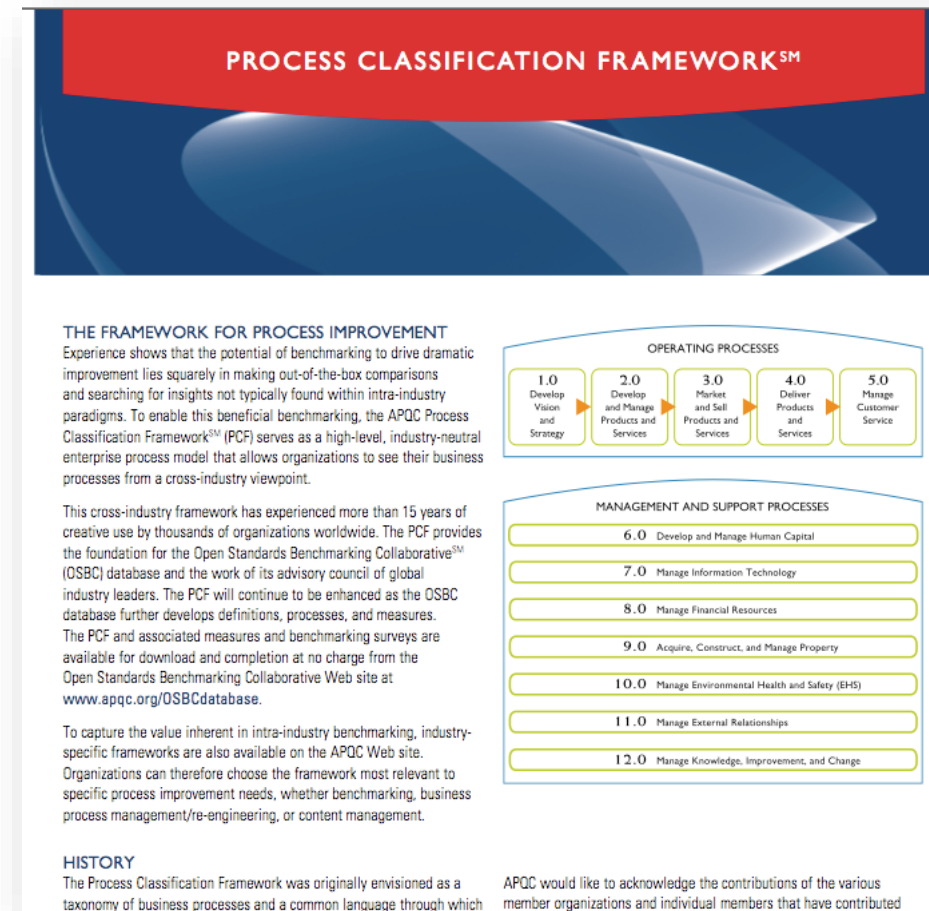
A reference model is used as a template to design the process architecture

Examples:

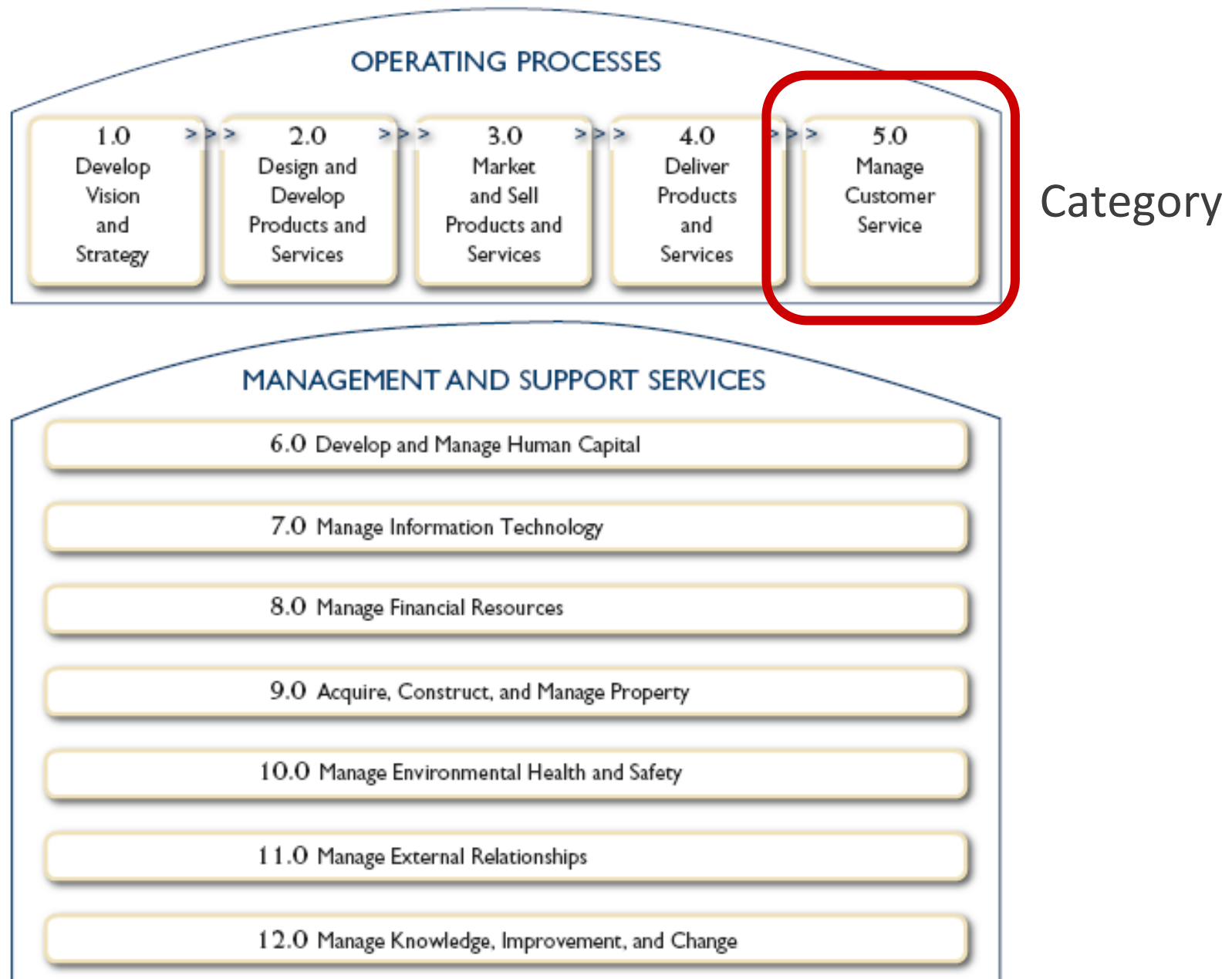
- Information Technology Infrastructure Library (ITIL)
- Supply Chain Operations Reference Model (SCOR)
- Process Classification Framework (PCF)
- Control Objectives for Information Technology (COBIT)
- Value Reference Model (VRM)
- Voluntary Interindustry Commerce Solutions (VICS)
- eTOM Business Process Framework
- Performance Framework

# Example: APQC Process Classification Framework (PCF)

- Industry-neutral enterprise model
- Open standard for benchmarking
- Four levels
  - Categories
  - Process group
  - Process
  - Activity



# APQC PCF Overview





# APQC Classification Framework

Activity	4.1.8.4	Identify performance trends (10273)	Group	4.3.1.4	Release production orders and create lots (10309)
		Analyze performance benchmark gaps (10274)			
	4.1.8.6	Prepare appropriate reports (10275)		4.3.2	Produce product (10304)
		Develop performance improvement plan (10276)			
	4.1.9	Develop quality standards and procedures (10368)		4.3.2.1	Manage raw material inventory (10310)
		Establish quality targets (10371)			
	4.1.9.2	Develop standard testing procedures (10372)		4.3.2.2	Execute detailed line schedule (10311)
		Communicate quality specifications (10373)			
4.2	4.2.1	Develop sourcing strategies (10277)	4.2 Procure materials and services (10216)	4.3.2.3	Rerun defective items (10313)
		Develop procurement plan (10281)			
	4.2.1.1	Clarify purchasing requirements (10282)		4.3.2.4	Assess production performance (10314)
		Develop inventory strategy (10283)			
	4.2.1.4	Match needs to supply capabilities (10284)		4.3.3	Schedule and perform maintenance (10305)
		Analyze company's spend profile (10285)			
	4.2.1.6	Seek opportunities to improve efficiency and value (10286)		4.3.3.1	Determine process for preventive (planned) maintenance (Preventive Maintenance Orders) (10315)
		Collaborate with suppliers to identify sourcing opportunities (10287)			
	4.2.2	Select suppliers and develop/maintain contracts		4.3.3.2	Determine process for requested (unplanned) maintenance (Work Order Cycle) (10316)
Process				4.3.3.3	Execute maintenance (10317)
				4.3.3.4	Calibrate test equipment (10318)
				4.3.3.5	Report maintenance issues (10319)
				4.3.4	Perform quality testing (10369)
				4.3.4.1	Perform testing using the standard testing procedure (10374)
				4.3.4.2	Record test results (10375)
				4.3.5	Maintain production records and manage lot traceability (10370)
				4.3.5.1	Determine lot numbering system (10376)



# Prioritization (aka Process Selection)

## 1. Importance

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

## 2. Health (or Dysfunction)

Which processes are in deepest trouble?

## 3. Feasibility

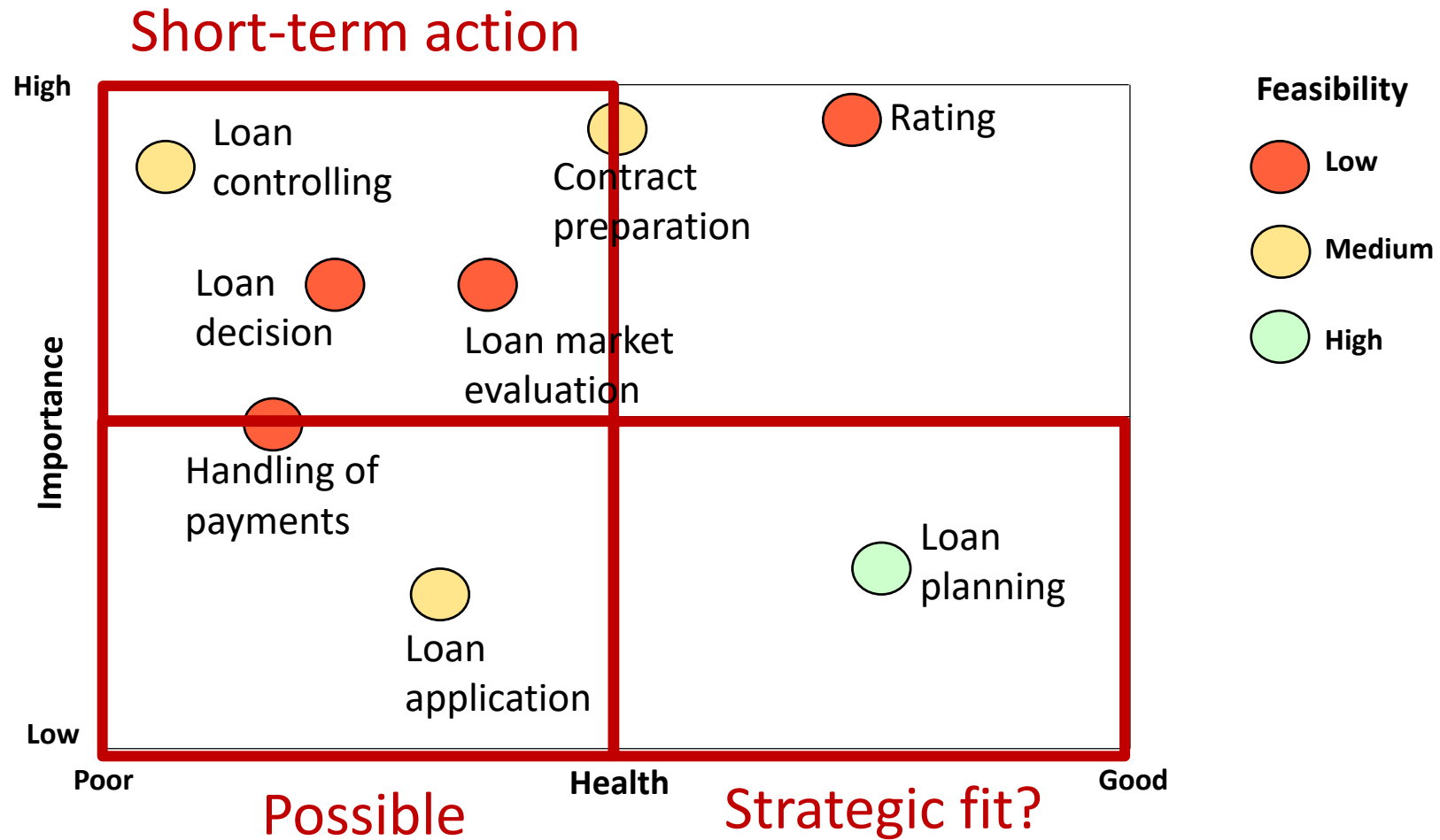
Which processes are most susceptible to successful process management?



Prioritized process portfolio

# Example: prioritized process portfolio

## Financial institution



# Questions

