



WIRTSCHAFTS  
UNIVERSITÄT  
WIEN VIENNA  
UNIVERSITY OF  
ECONOMICS  
AND BUSINESS



# *Integration Management with SAP ECC*

Alexander Prosser

Domenica Bagnato

# Content schedule

- Sales process "test flight"
- Cost accounting
- Materials, materials management => BOM
- Work centres
- Routings
- Sales and operations plan => Independent demand
- MRP run

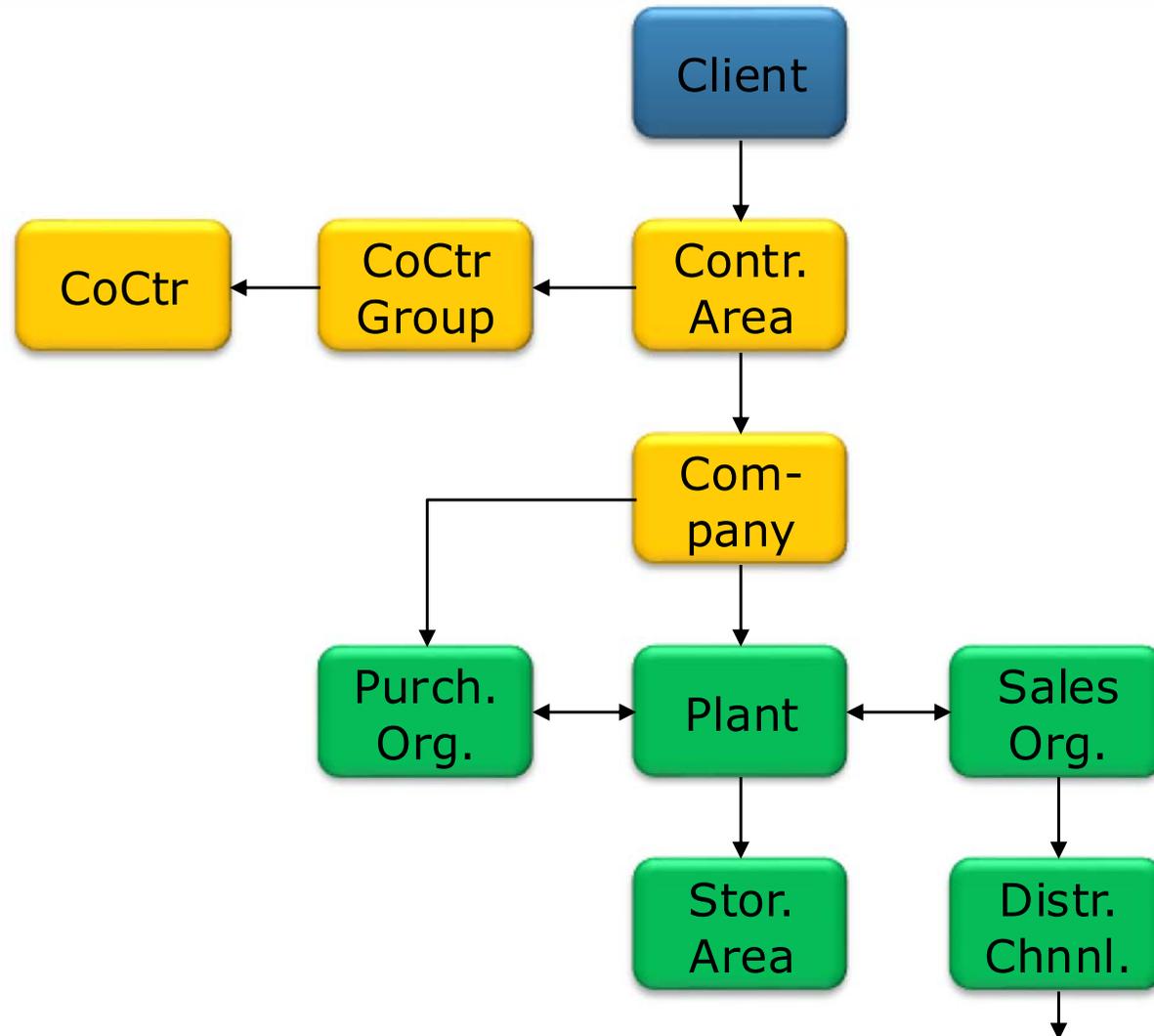
## **Purchase requisitions**

Vendor master data  
Info records  
Vendor assignment  
Purchase order  
Goods receipt

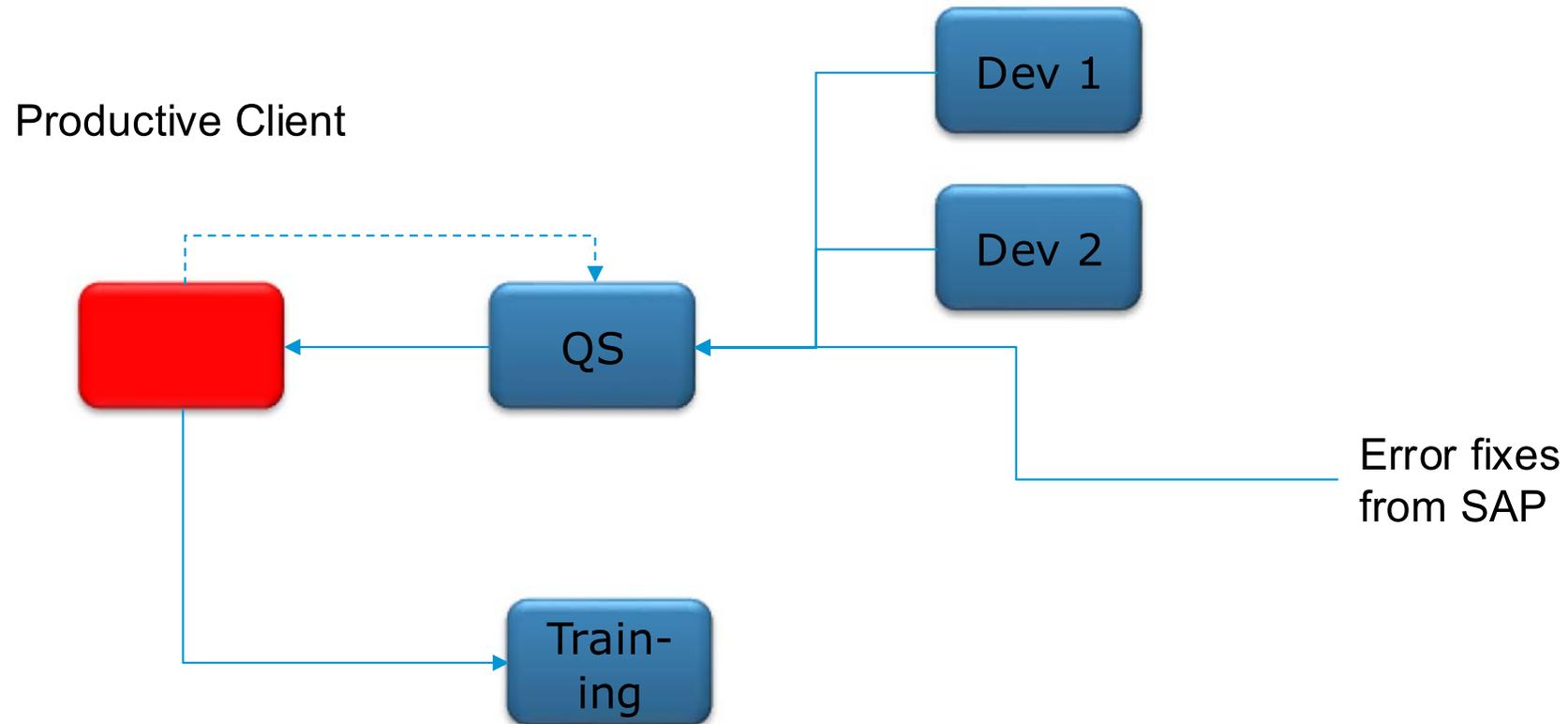
## **Planned production order**

Create order  
Check order  
Release order  
Goods issue  
Confirmation  
Goods receipt  
Order closure

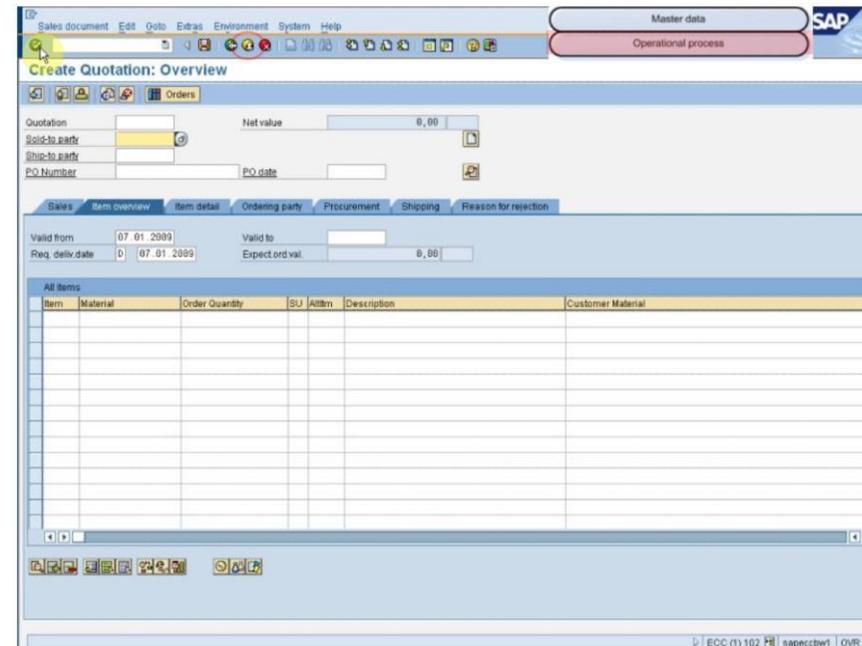
# Organisational Structure



# Organisational Structure

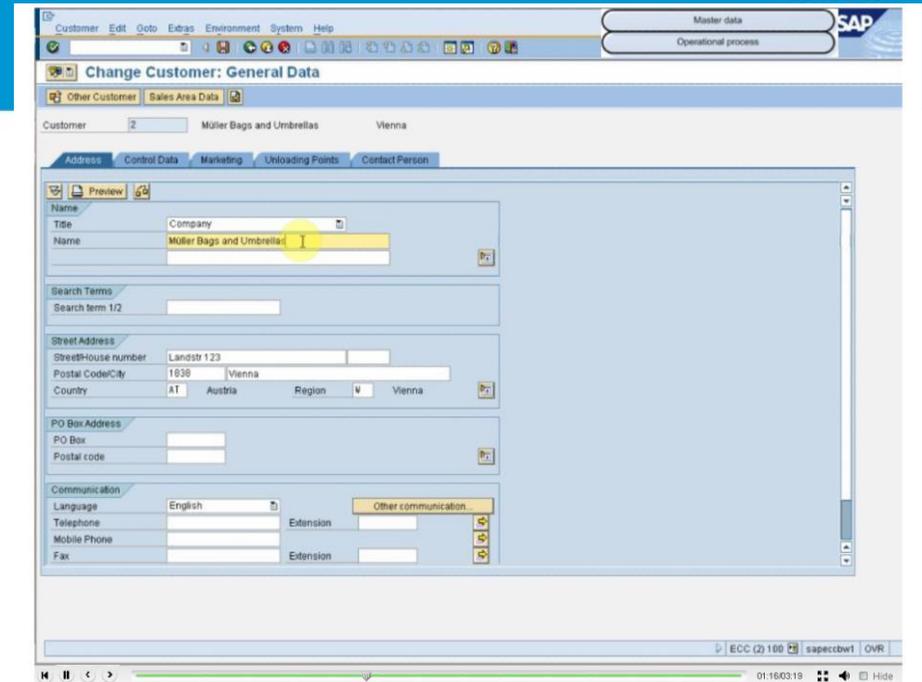


# Overview



Operational process

# Overview



The screenshot shows the SAP 'Change Customer: General Data' interface. At the top, there are two tabs: 'Master data' and 'Operational process'. The 'Master data' tab is active. The main content area is divided into several sections: 'Name' (with fields for Title, Name, and Company), 'Search Terms' (with a search term field), 'Street Address' (with fields for Street/House number, Postal Code/City, and Country), 'PO Box Address' (with fields for PO Box and Postal code), and 'Communication' (with fields for Language, Telephone, Mobile Phone, and Fax). The 'Name' section is highlighted with a yellow circle. The bottom of the screen shows a status bar with the text 'ECC (Z) 160 | sapecbw1 | OVR' and a timestamp '01:16:03:19'.

Master data

Operational process

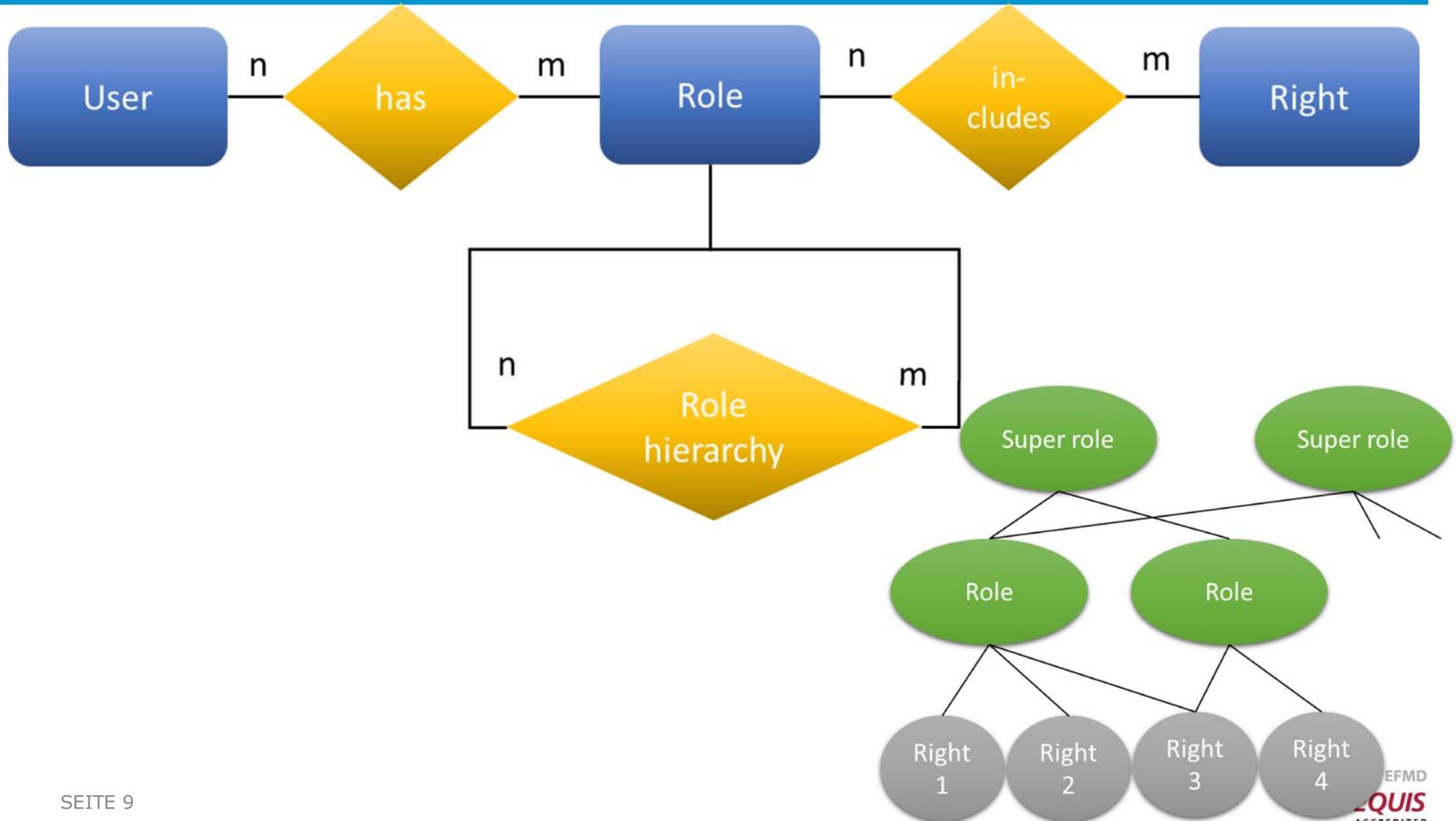
# State-of-the-art Access Management



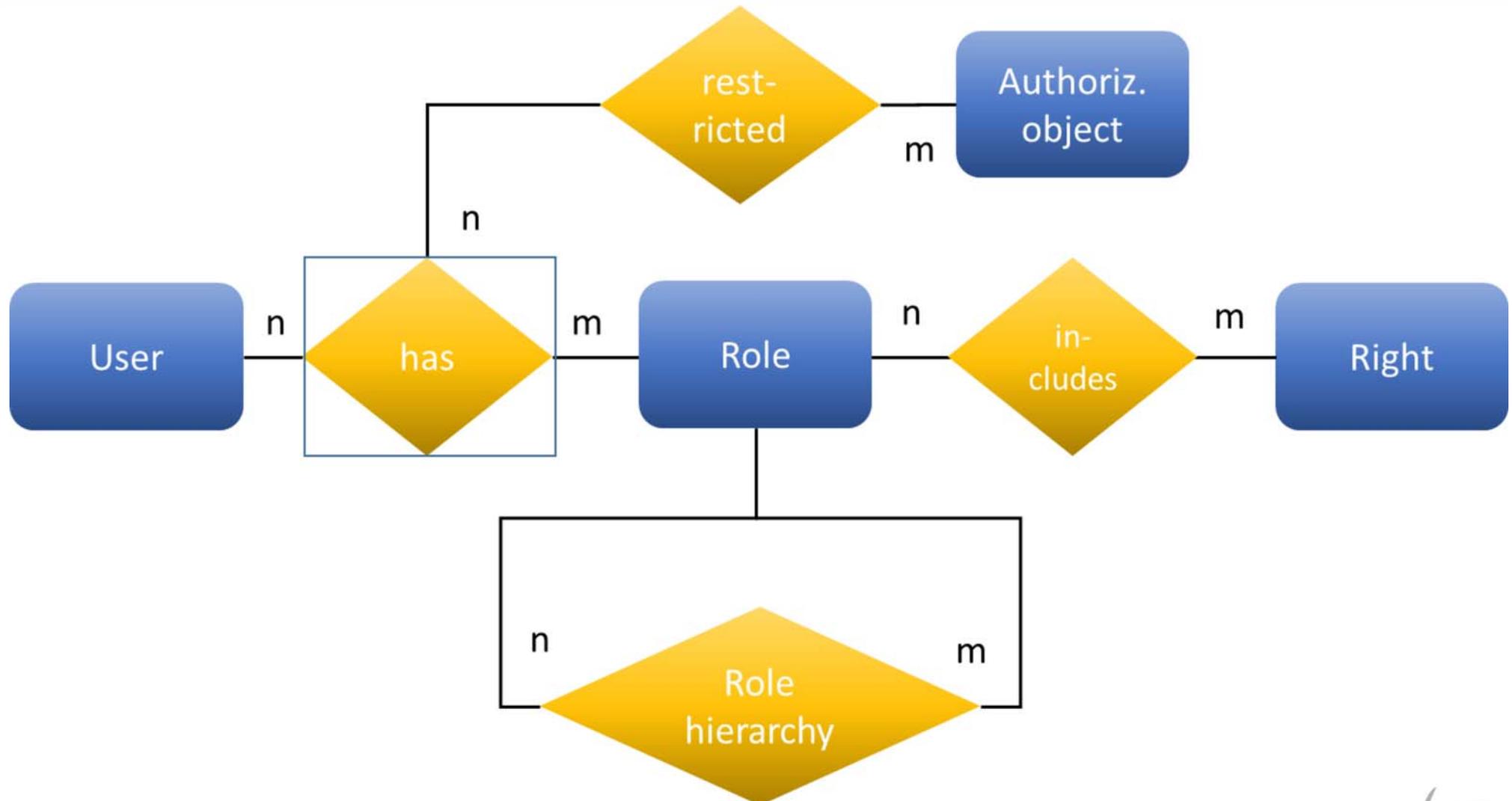
# State-of-the-art Access Management



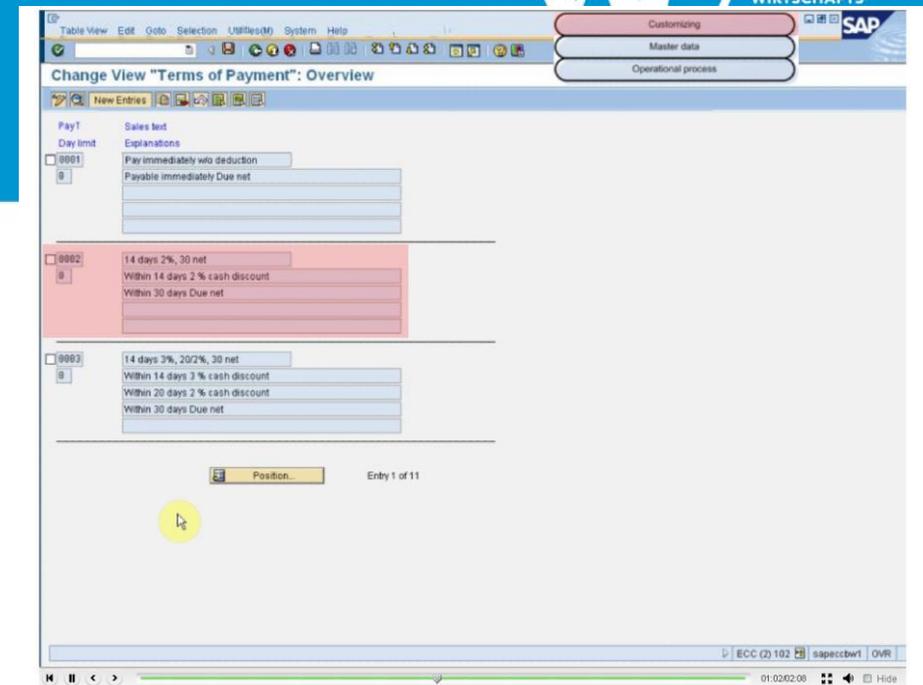
# State-of-the-art Access Management



# State-of-the-art Access Management



# Overview



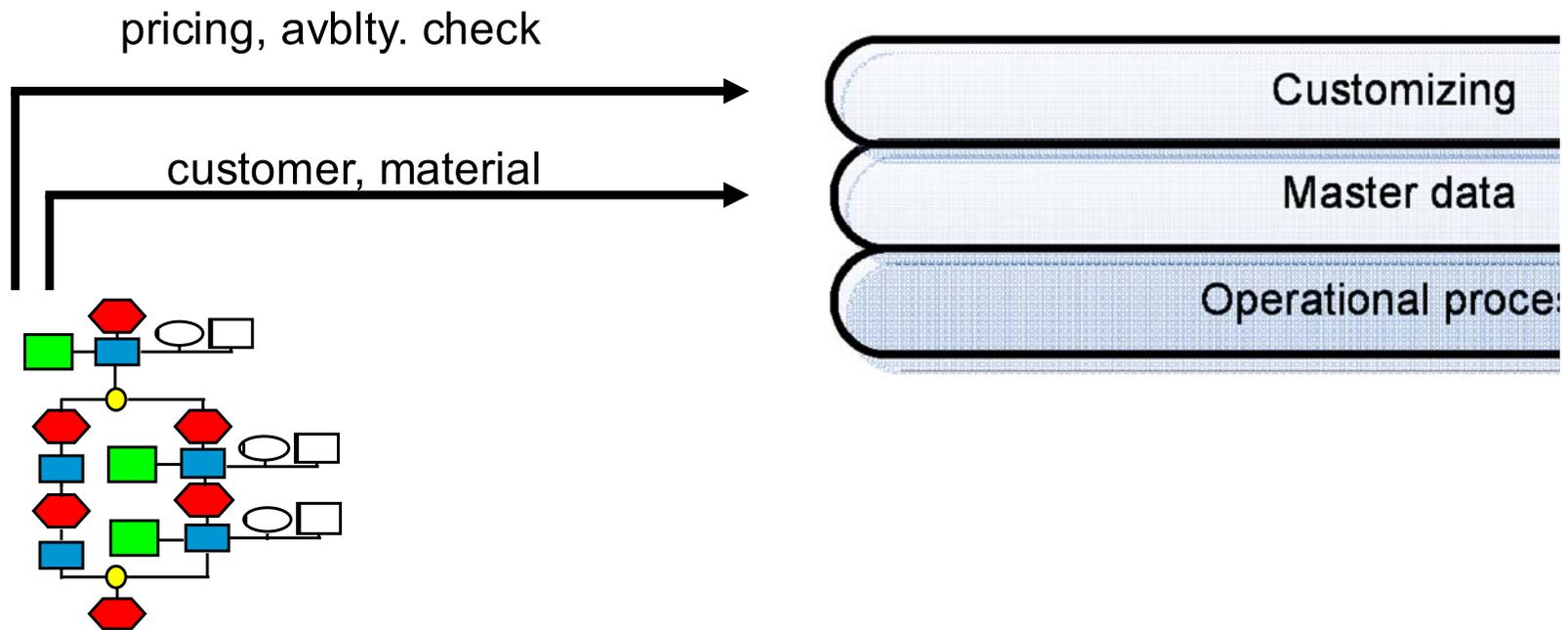
# Overview

*Planning*

Implementation

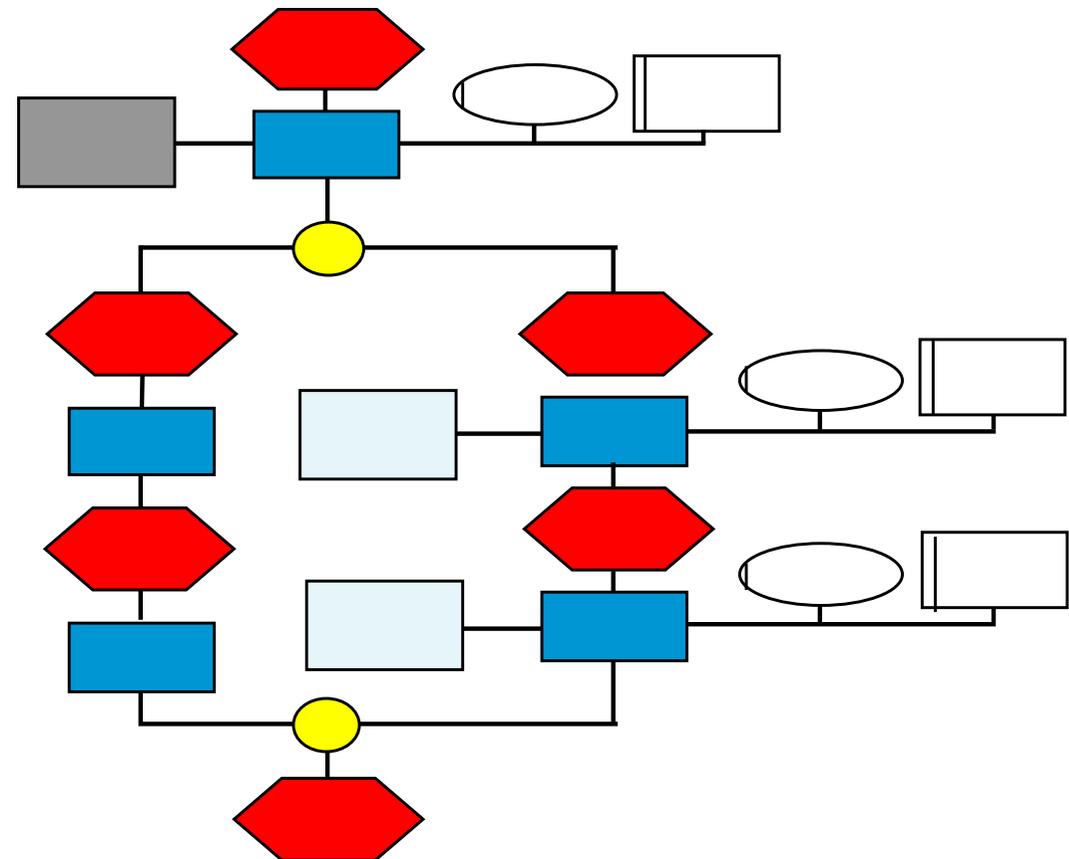


# Overview

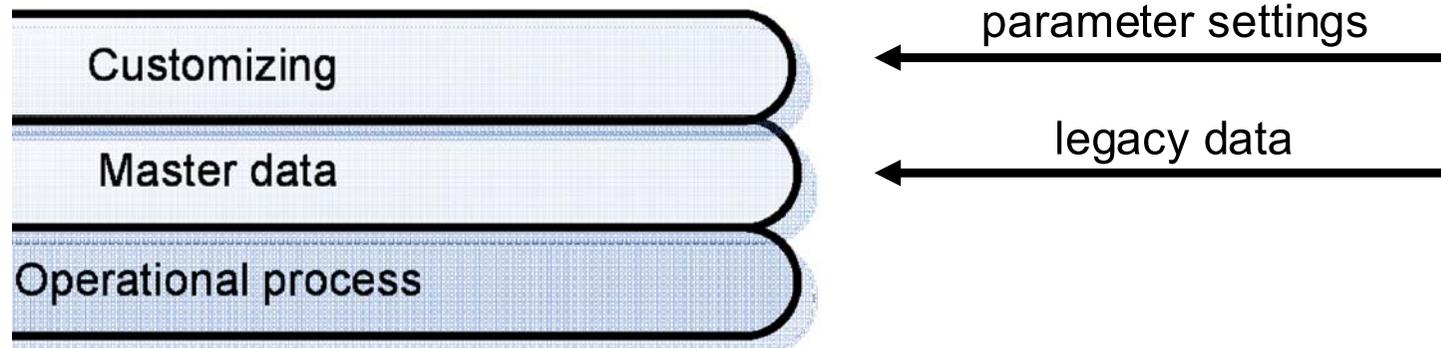


# ECC Supporting the Implementation

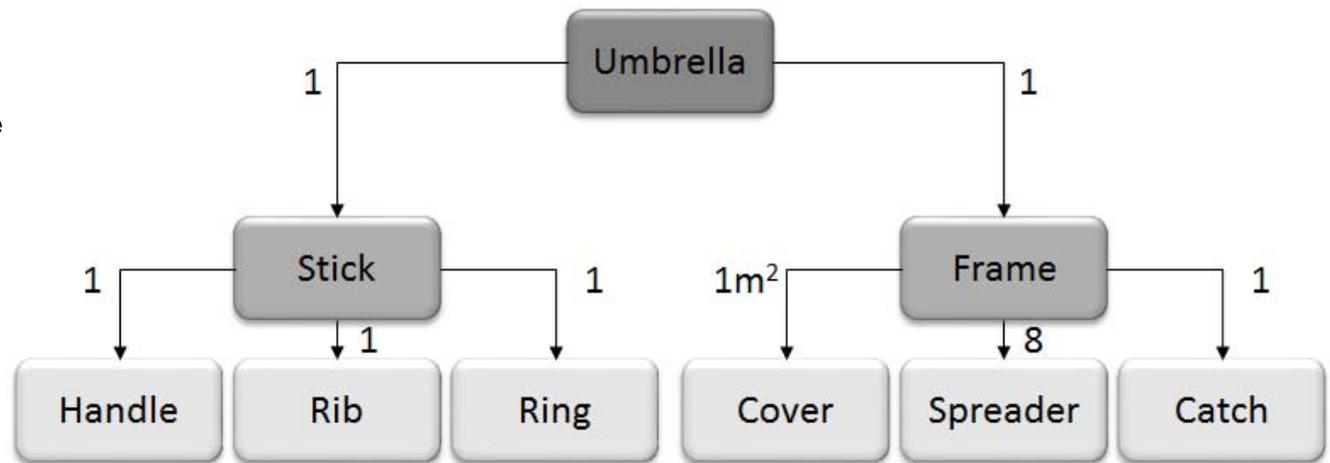
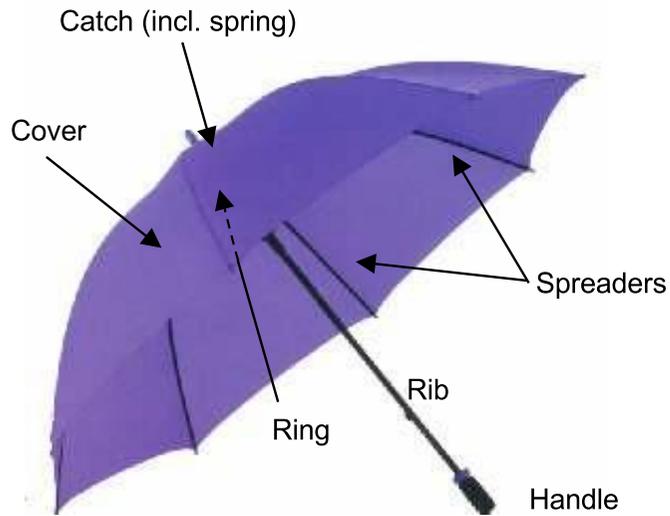
- Master and operational data req. derived from chain
- According to implem. plan: do we have all data necessary along the chain?
- Plan for customizing and data transfer from legacy systems



# Overview



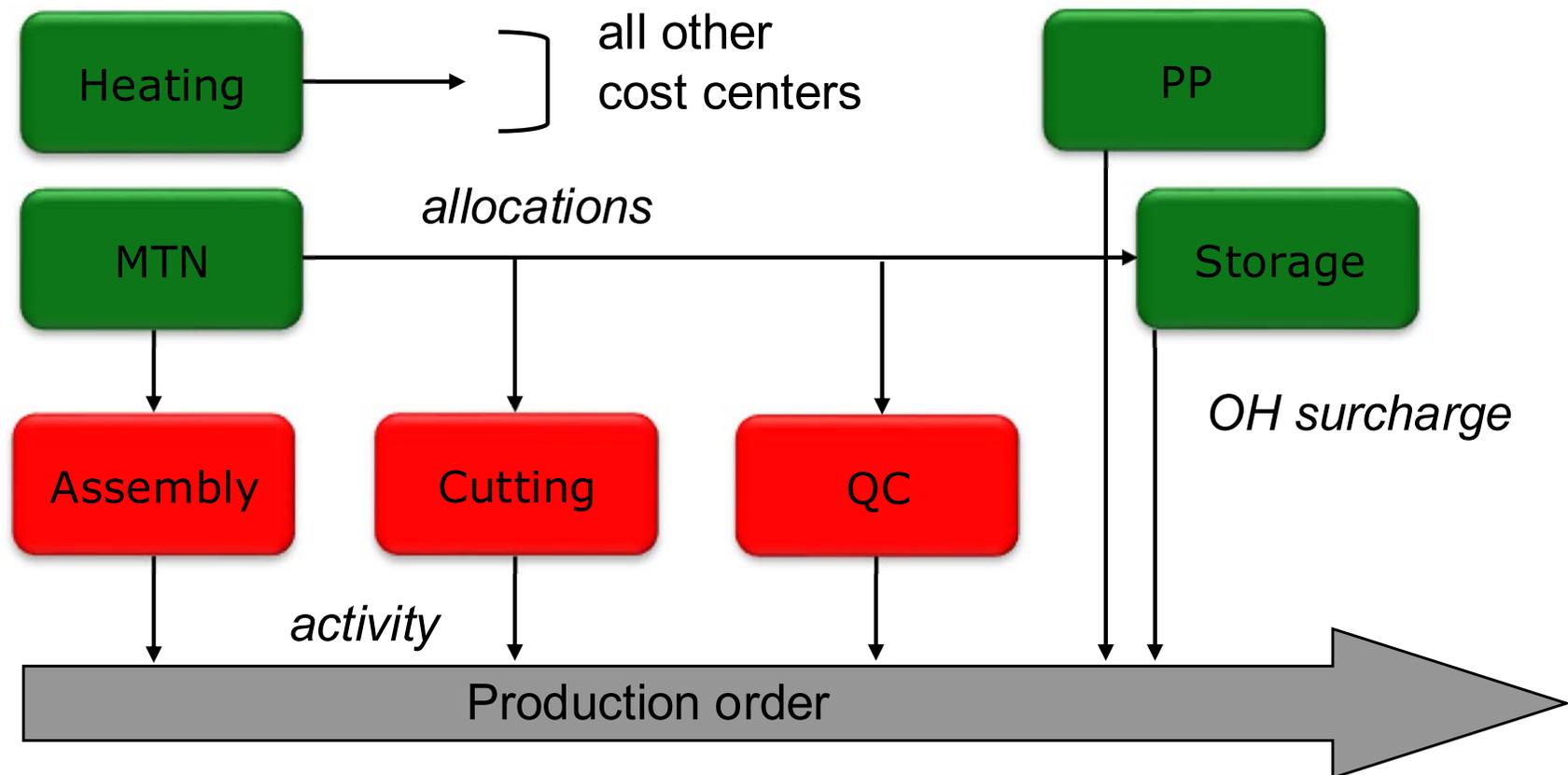
# The Case Study



# The Case Study

ROUTING STICK			
WORK CENTER	SET-UP TIME	PROCESSING TIME	MATERIAL
wuxx-asby (Assembly)	15 min	10 s	Handle, rib, ring
wuxx-qa (Quality Assurance)	-	10 s	-
ROUTING FRAME			
WORK CENTER	SET-UP TIME	PROCESSING TIME	MATERIAL
wuxx-cut (Cutting)	10 min	10 s	Cover
wuxx-asby	10 min	20 s	Spreaders, catch
wuxx-qa	-	10 s	-
ROUTING UMBRELLA			
WORK CENTER	SET-UP TIME	PROCESSING TIME	MATERIAL
wuxx-asby	10 min	10 s	Stick, frame
wuxx-qa	-	10 s	-

# Cost Accounting



# Primary cost planning

Wages and salaries:	Fixed EUR	Variable EUR	Total EUR
<b>Assembly</b>	48,000	12,000	60,000
<b>Cutting</b>	28,000	7,000	35,000
<b>Q-Check</b>	25,600	6,400	32,000
<b>Heating</b>			
<b>Maintenance</b>	32,000		32,000
<b>Production planning</b>	60,000		60,000
<b>Storage</b>	65,000		65,000
<b>Social Security:</b>	Fixed EUR	Variable EUR	Total EUR
<b>Assembly</b>	14,400	3,600	18,000
<b>Cutting</b>	8,400	2,100	10,500
<b>Q-Check</b>	7,700	1,900	9,600
<b>Heating</b>			
<b>Maintenance</b>	9,600		9,600
<b>Production planning</b>	18,000		18,000
<b>Storage</b>	19,500		19,500

# Primary cost planning

Depreciation:	Original investment	Useful life	Annual depr. EUR
<b>Assembly machine</b>	200,000	n/a	n/a
<b>Assembly tools</b>	24,000	6	4,000
<b>Cutting machine</b>	45,000	n/a	n/a
<b>Maintenance tools</b>	7,000	10	700
	4,000	5	800
<b>Prod. planning system</b>	25,000	5	5,000
<b>Storage building</b>	180,000	25	7,200
<b>Storage system</b>	120,000	15	8,000
<b>PC with control software</b>	20,000	5	4,000

Useful life: Assembly 20,000 hrs, Cutting 22,500 hrs

Assembly and cutting 90% variable

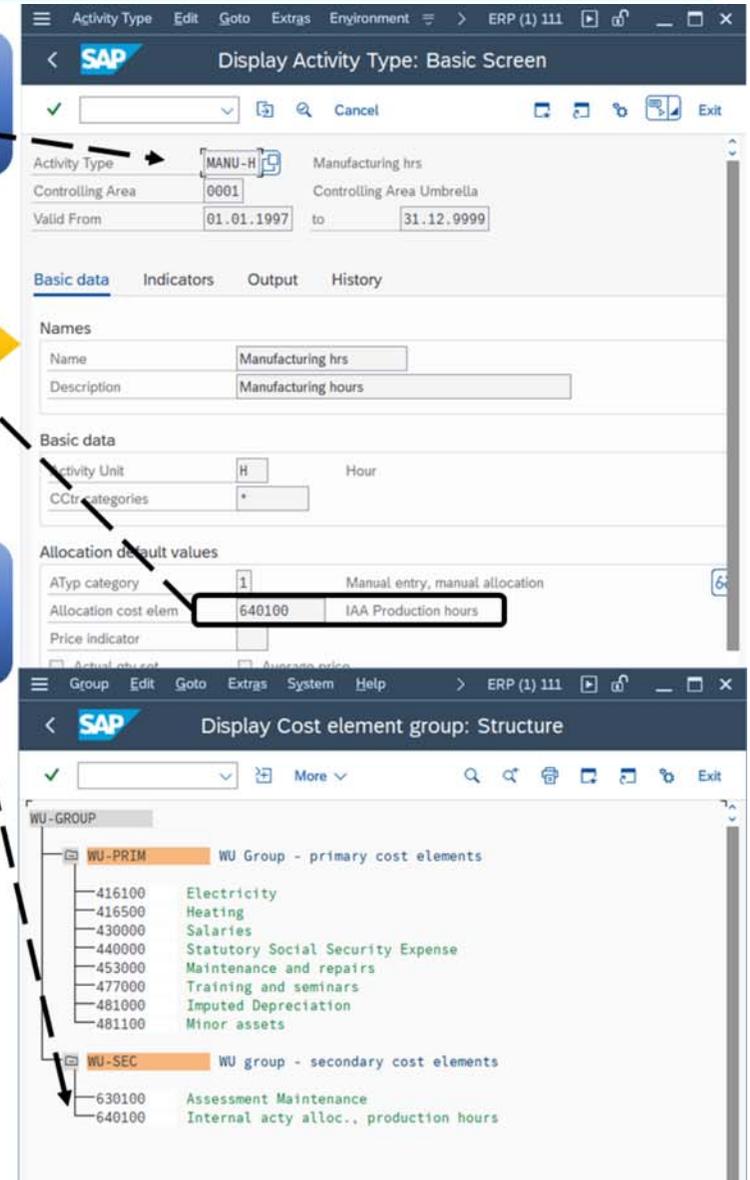
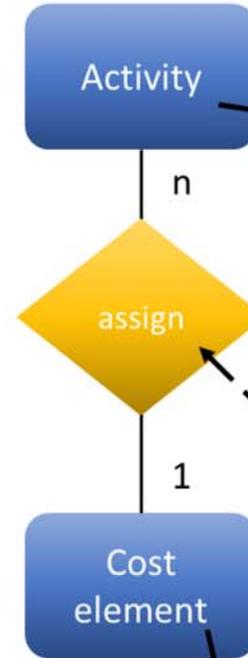
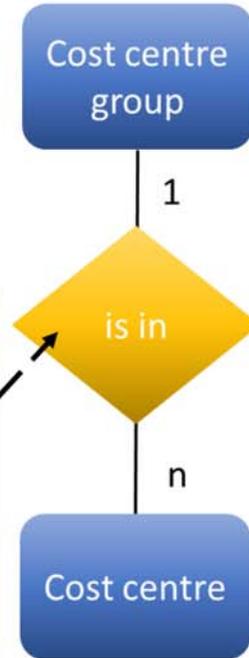
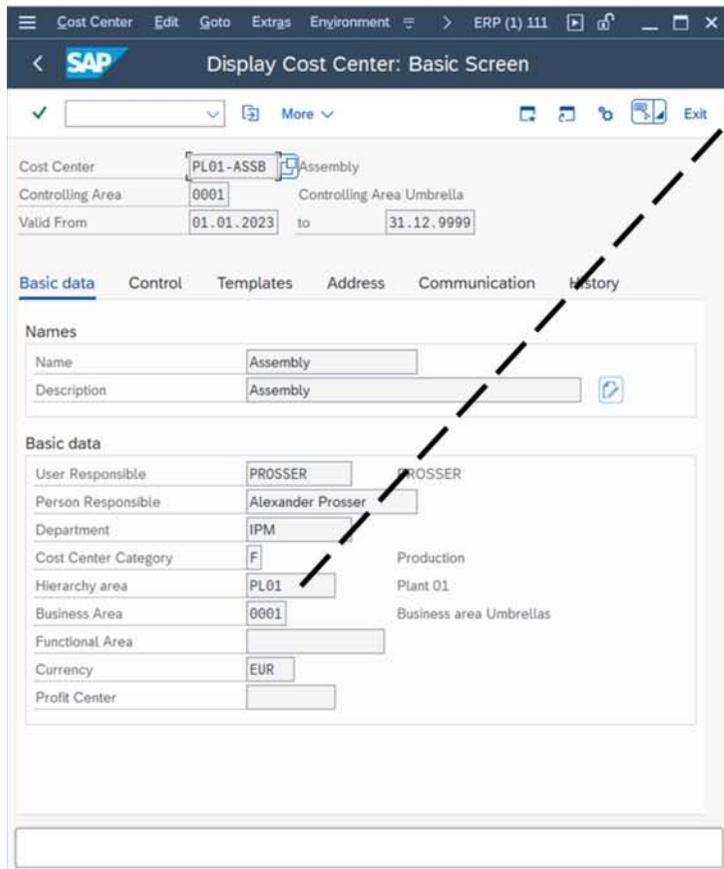
# Primary cost planning

Other costs:	Total cost EUR	Comment
<b>Assembly:</b>		
Minor assets	700	Can be depreciated immediately
Electricity	2,500	
<b>Cutting:</b>		
Minor assets	1,200	
Electricity	1,900	
<b>Q-Check:</b>		
Training	2,000	
Electricity	500	
<b>Heating: Heating costs</b>	5,000	Long distance provider, no assets
<b>Maintenance:</b>		
Electricity	1,200	
Training	1,000	
<b>Production Planning:</b>		
Electricity	450	
Software upgrade	400	
Training	5,000	
<b>Storage:</b>		
Electricity	2,600	Can be deducted, no activation
Repairs	9,000	

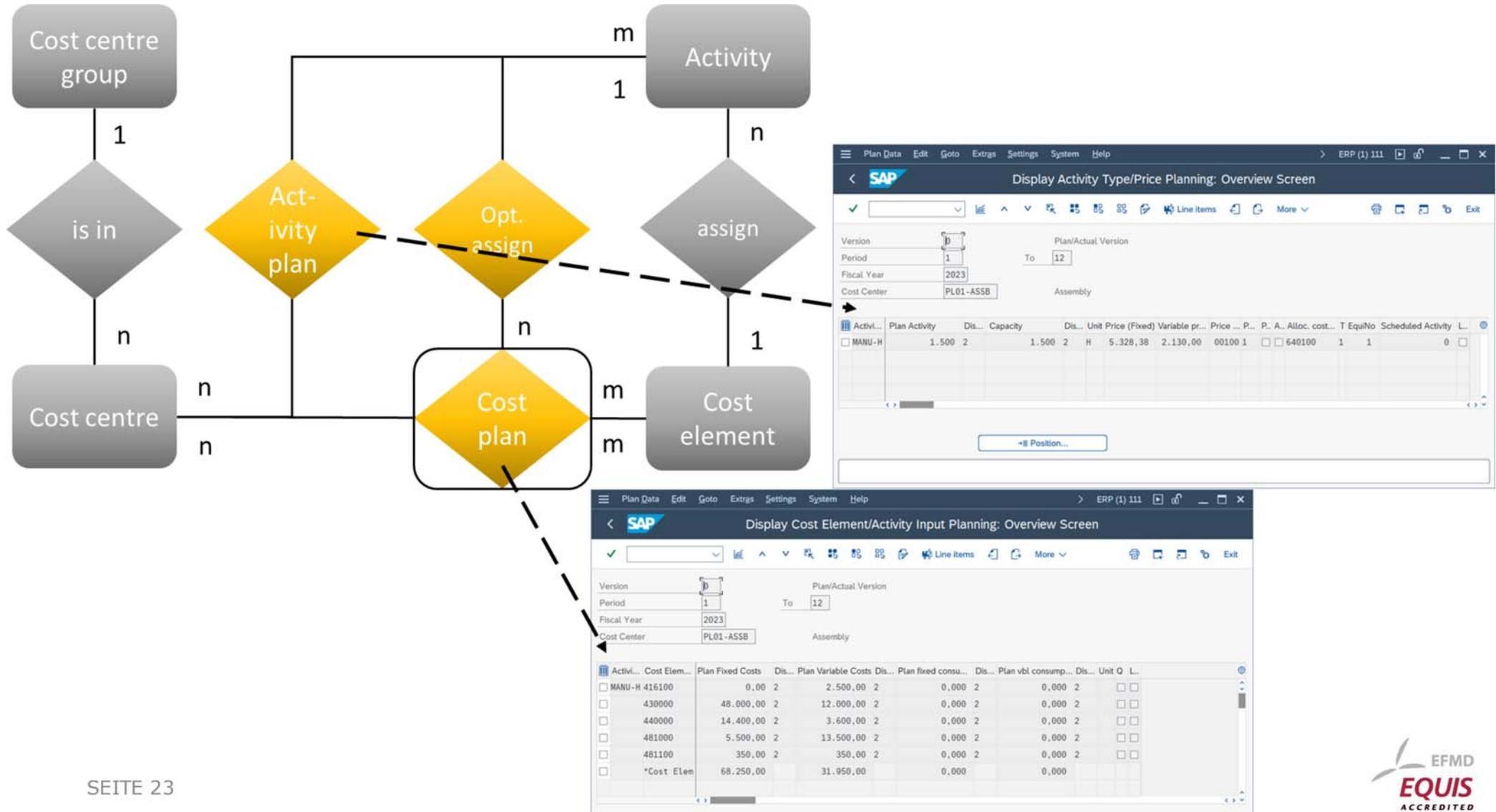
In direct cost centers:

Minor assets 50% variable  
Electricity fully variable  
Training fully fixed

# Cost Accounting



# Cost Accounting

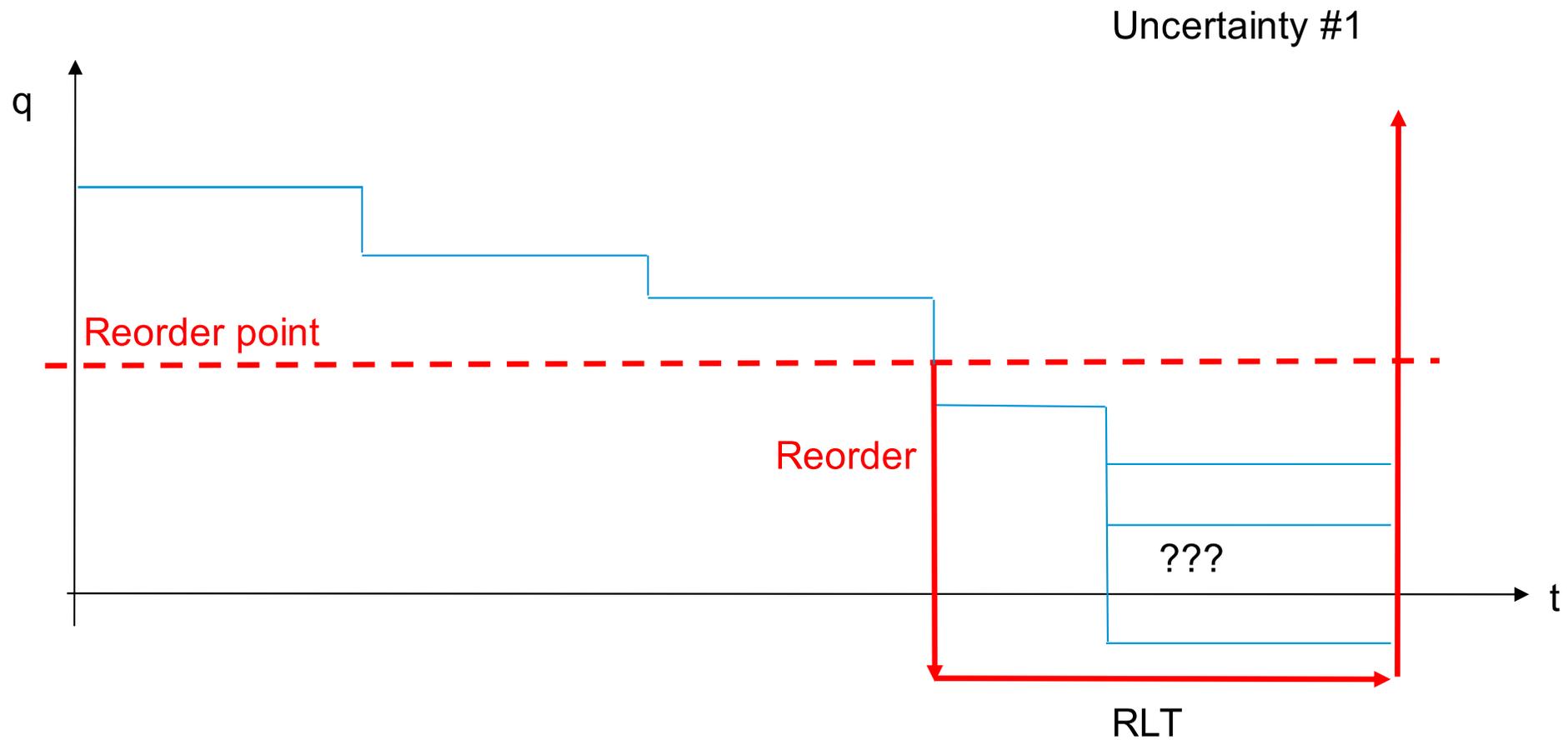


# Service flow

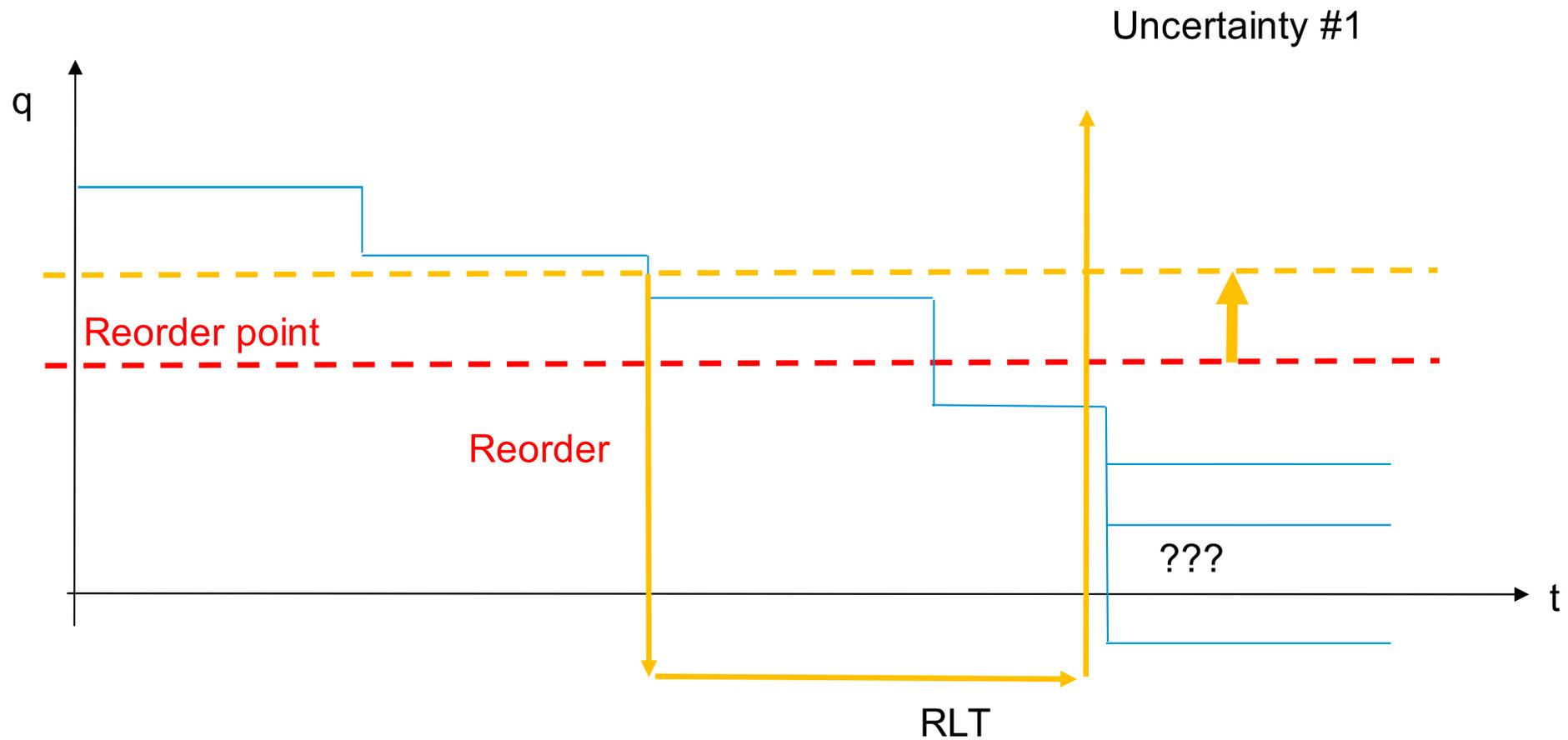
Also activities

	Hours uptime	m2
<b>Assembly</b>	1500	100
<b>Cutting</b>	1500	100
<b>Q-Check</b>	1400	50
<b>Heating</b>		
<b>Maintenance</b>		25
<b>Production planning</b>		25
<b>Storage</b>	2000	200

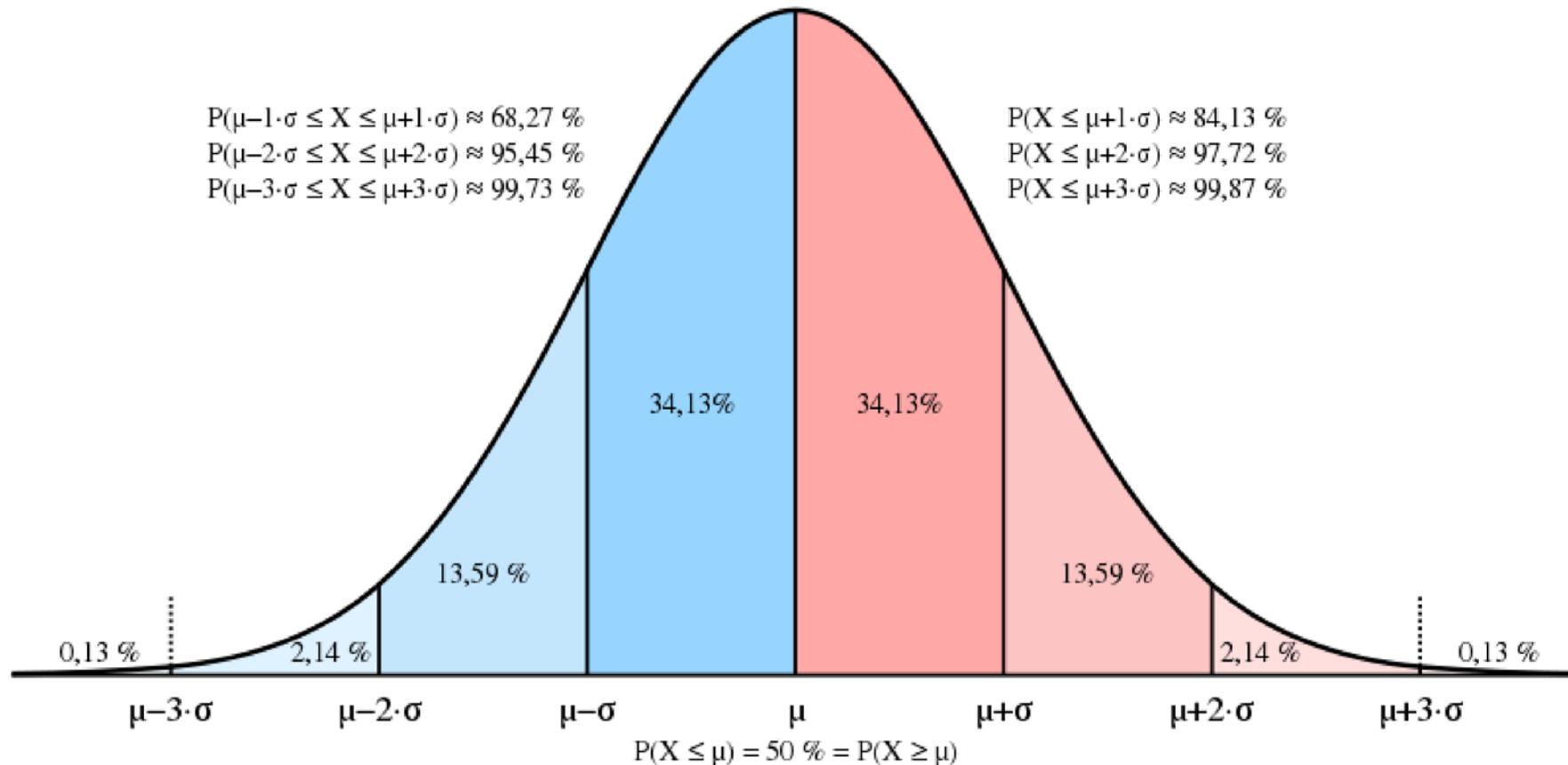
# Consumption-based planning



# Consumption-based planning

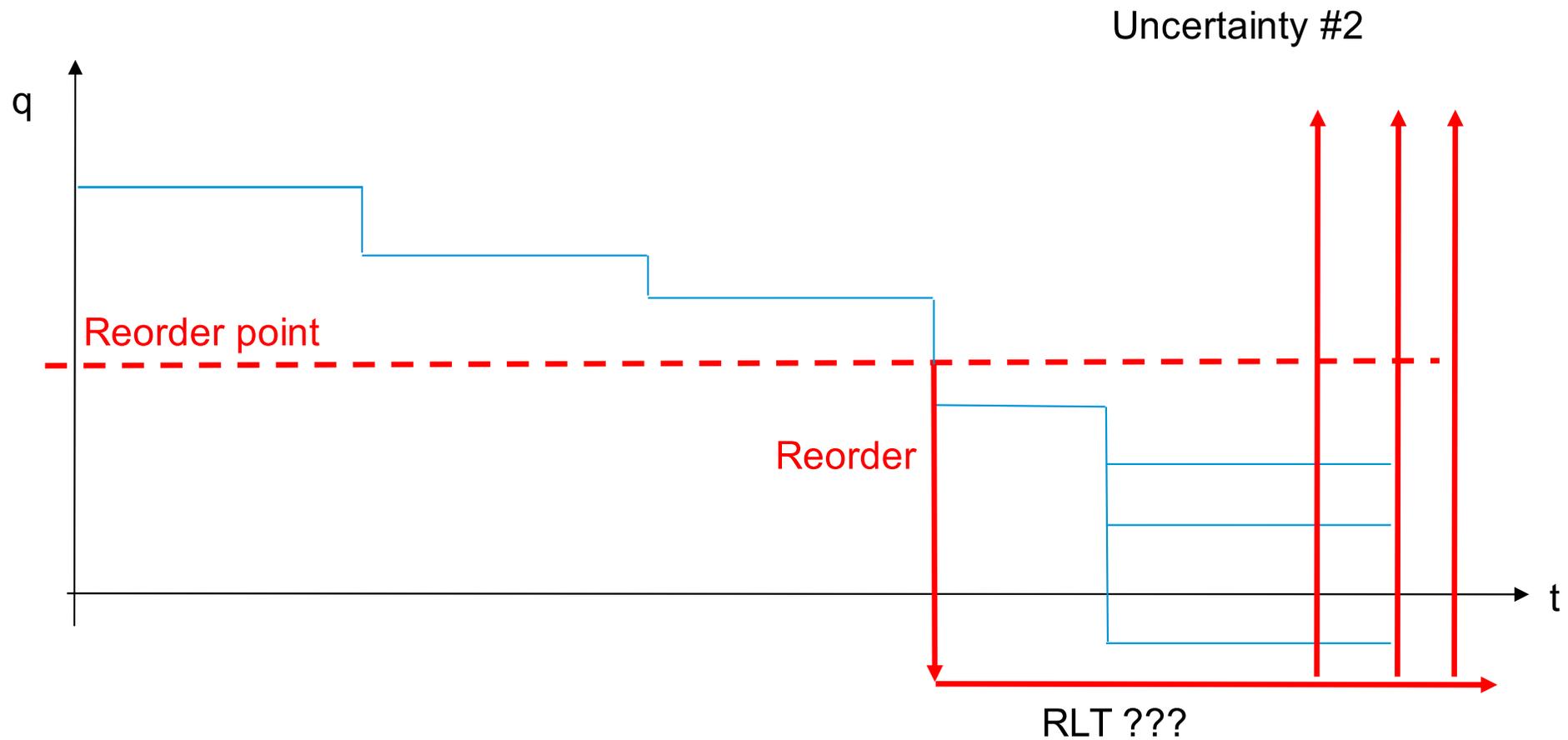


# Consumption-based planning

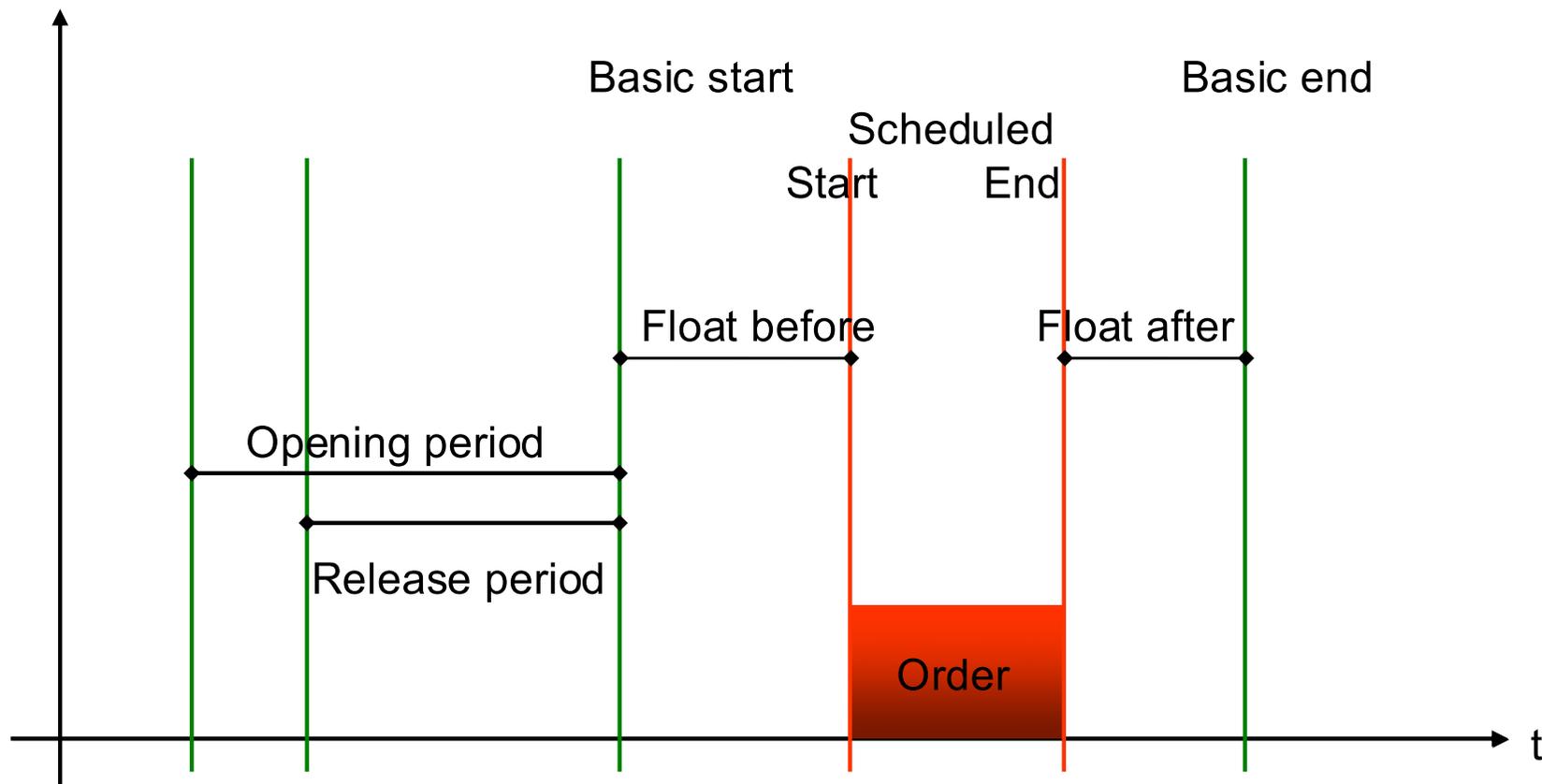


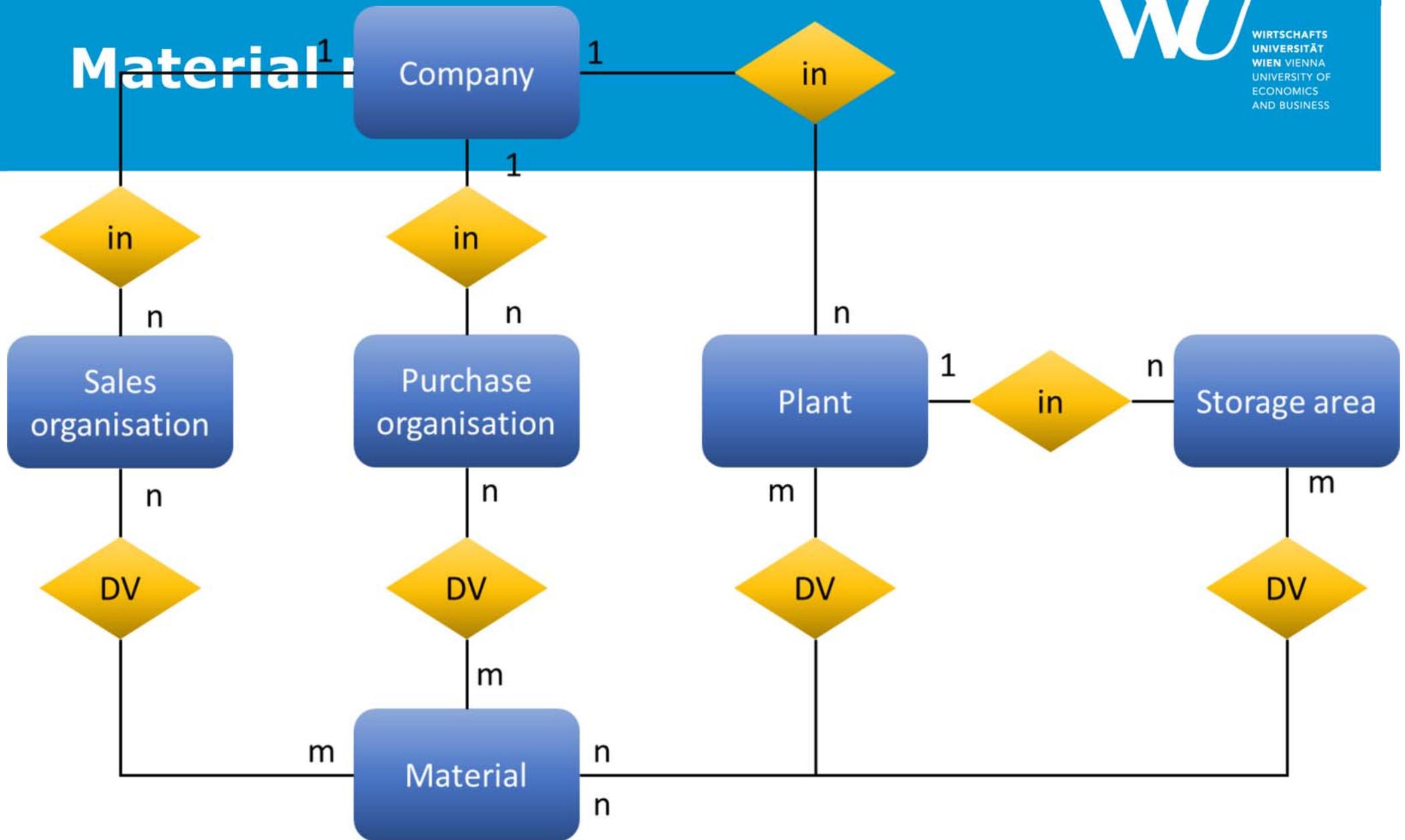
Source: [https://commons.wikimedia.org/wiki/File:Normal\\_Distribution\\_Sigma.svg](https://commons.wikimedia.org/wiki/File:Normal_Distribution_Sigma.svg), Creative Commons

# Consumption-based planning

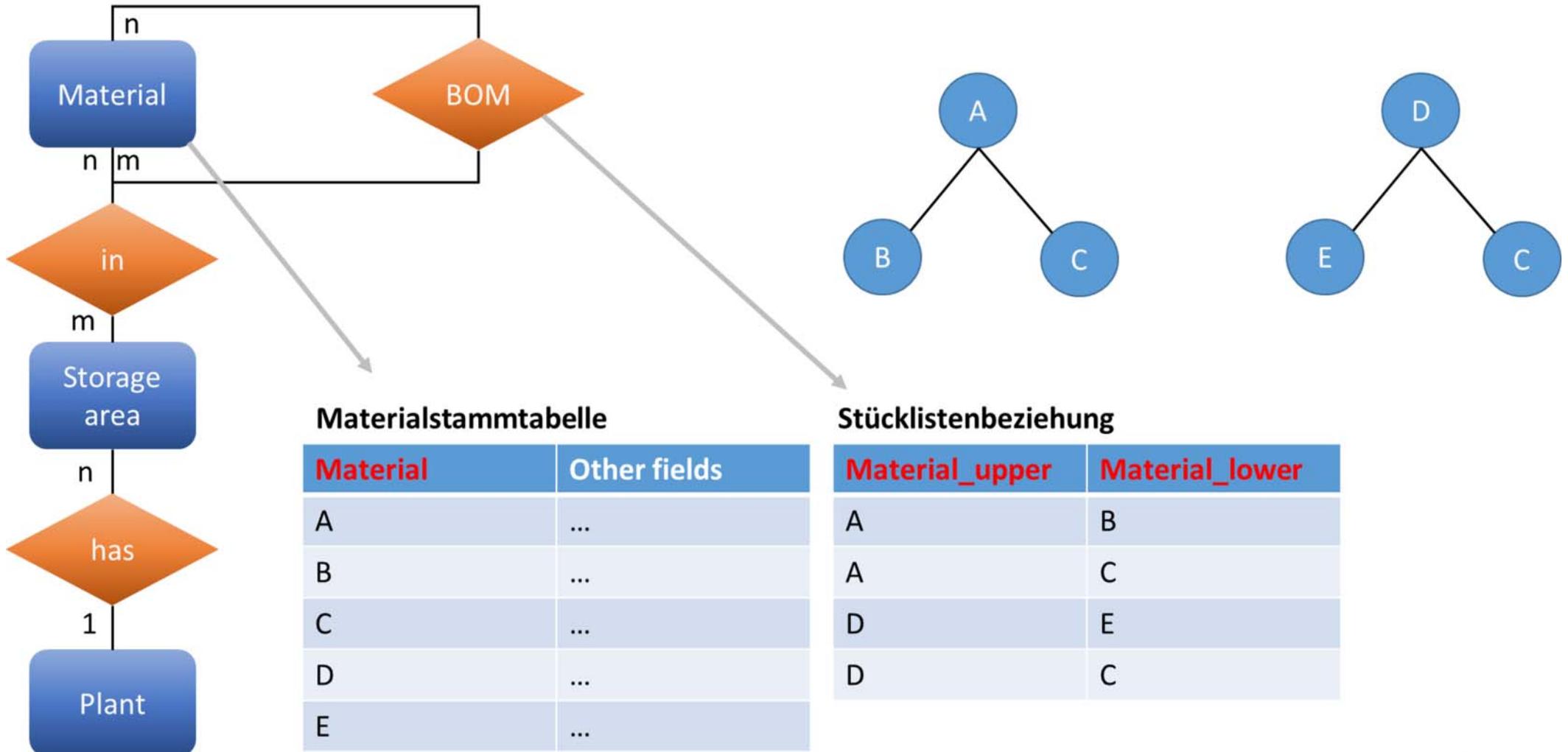


# Scheduling margin key

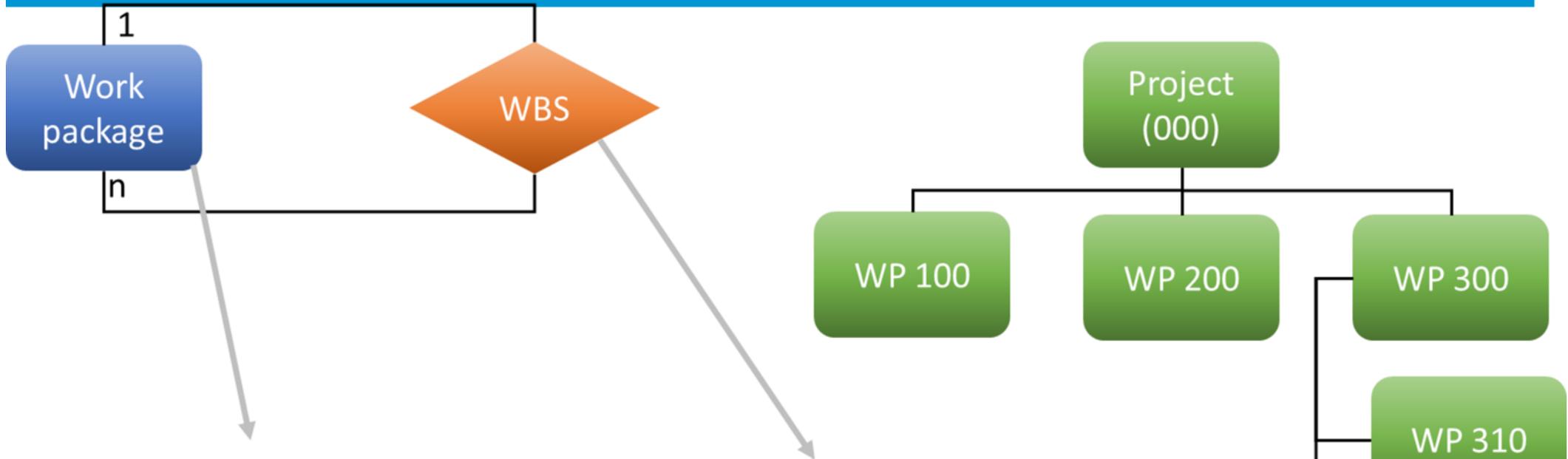




# MRP

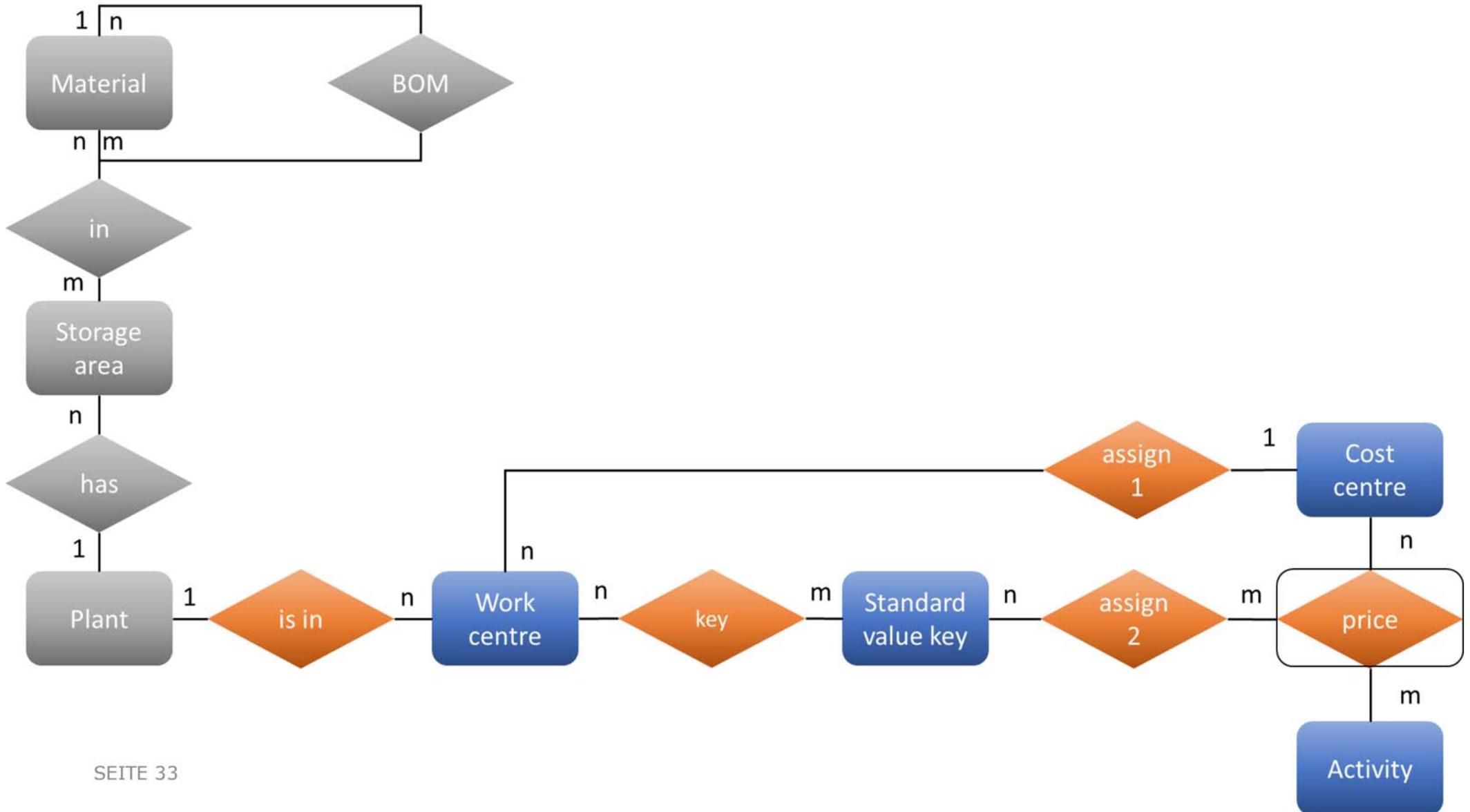


# MRP

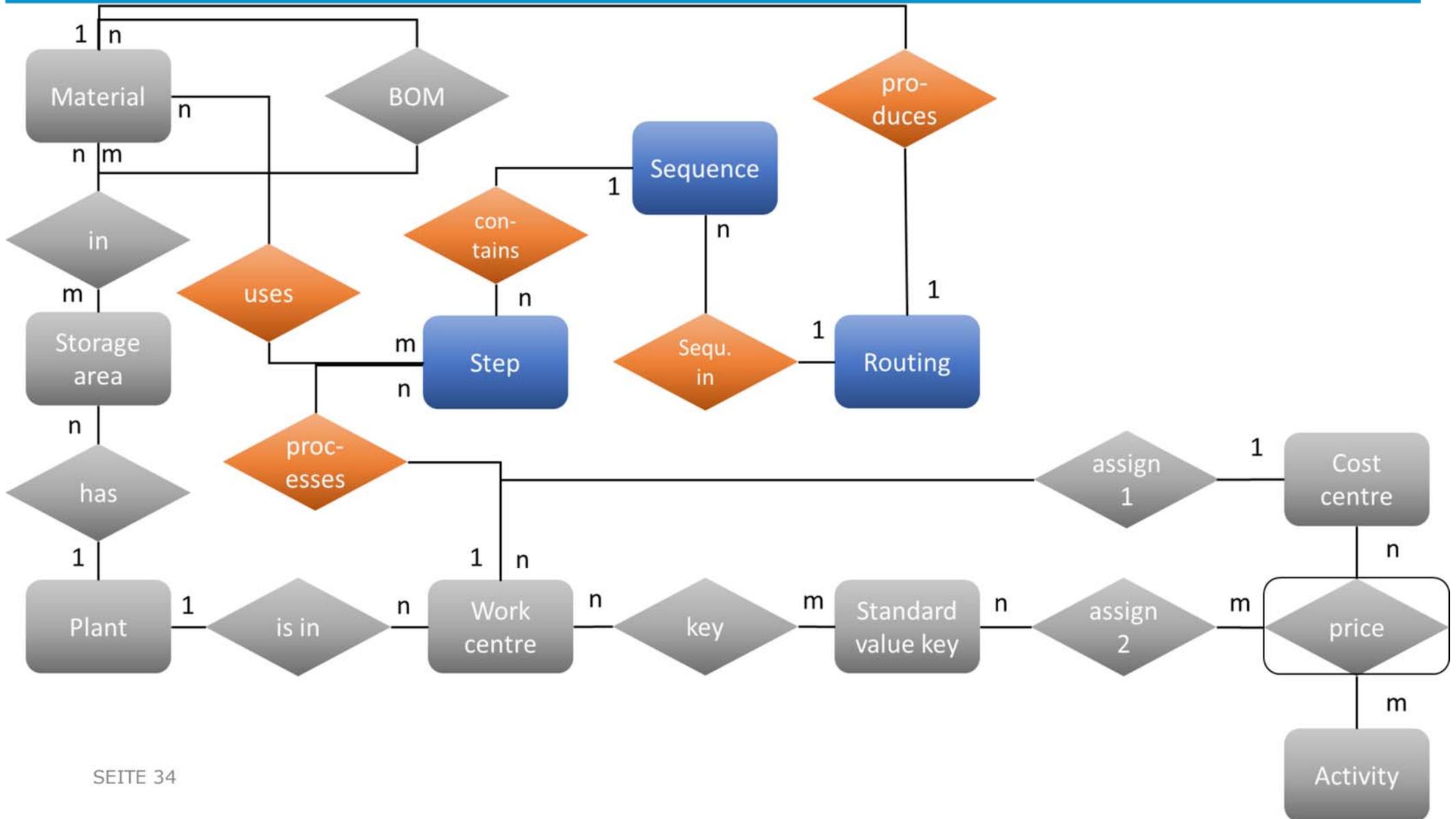


WP	Other fields	WP_upper
320	...	300
310	...	300
300	...	000
200	...	000
100	...	000
000	...	

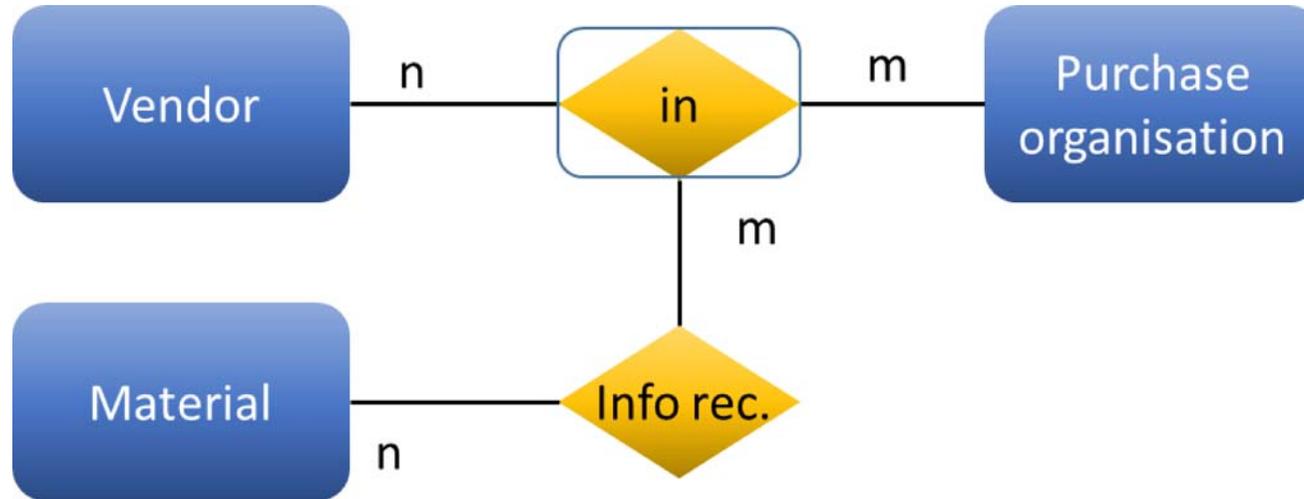
# MRP



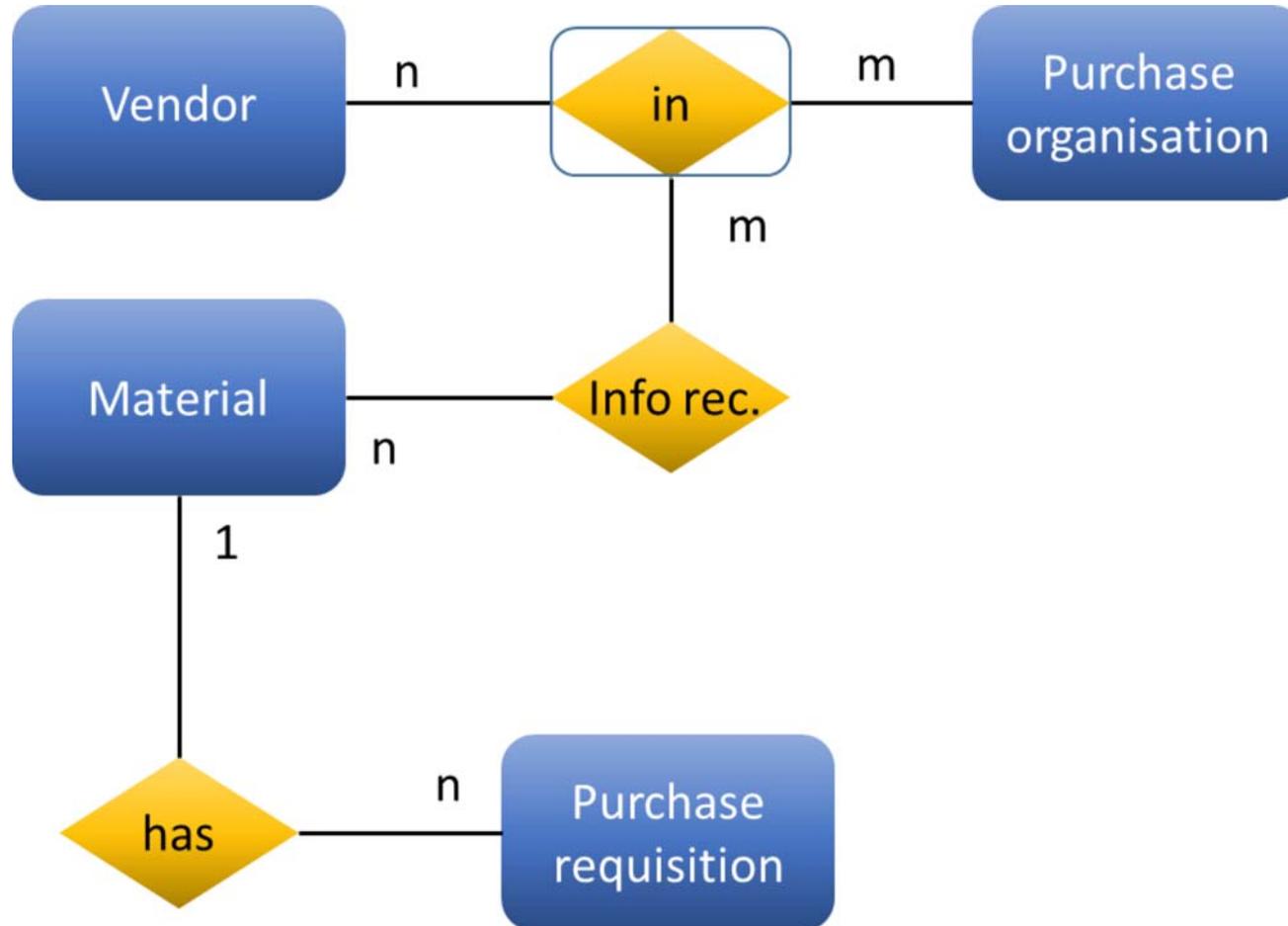
# MRP



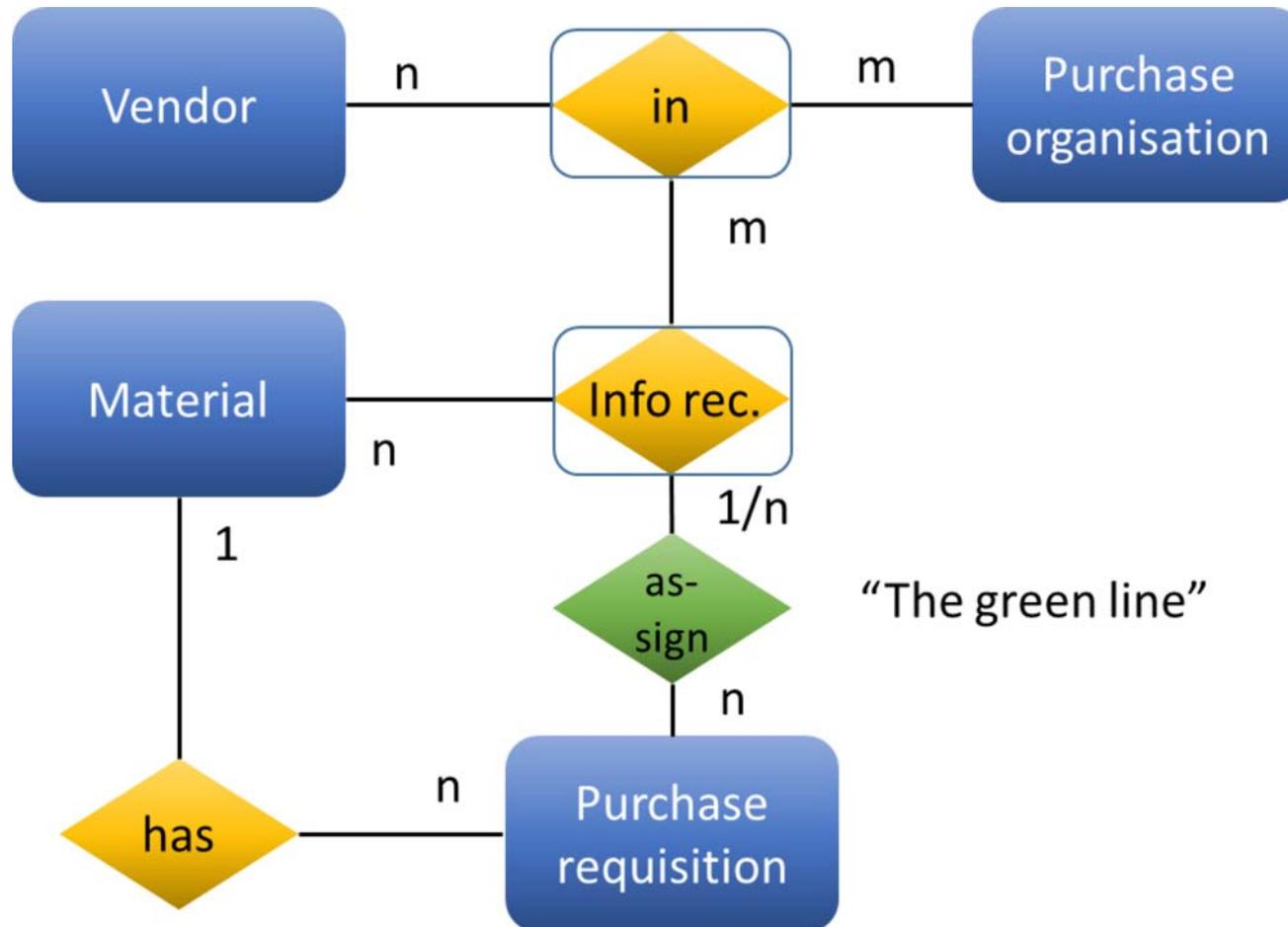
# Procurement



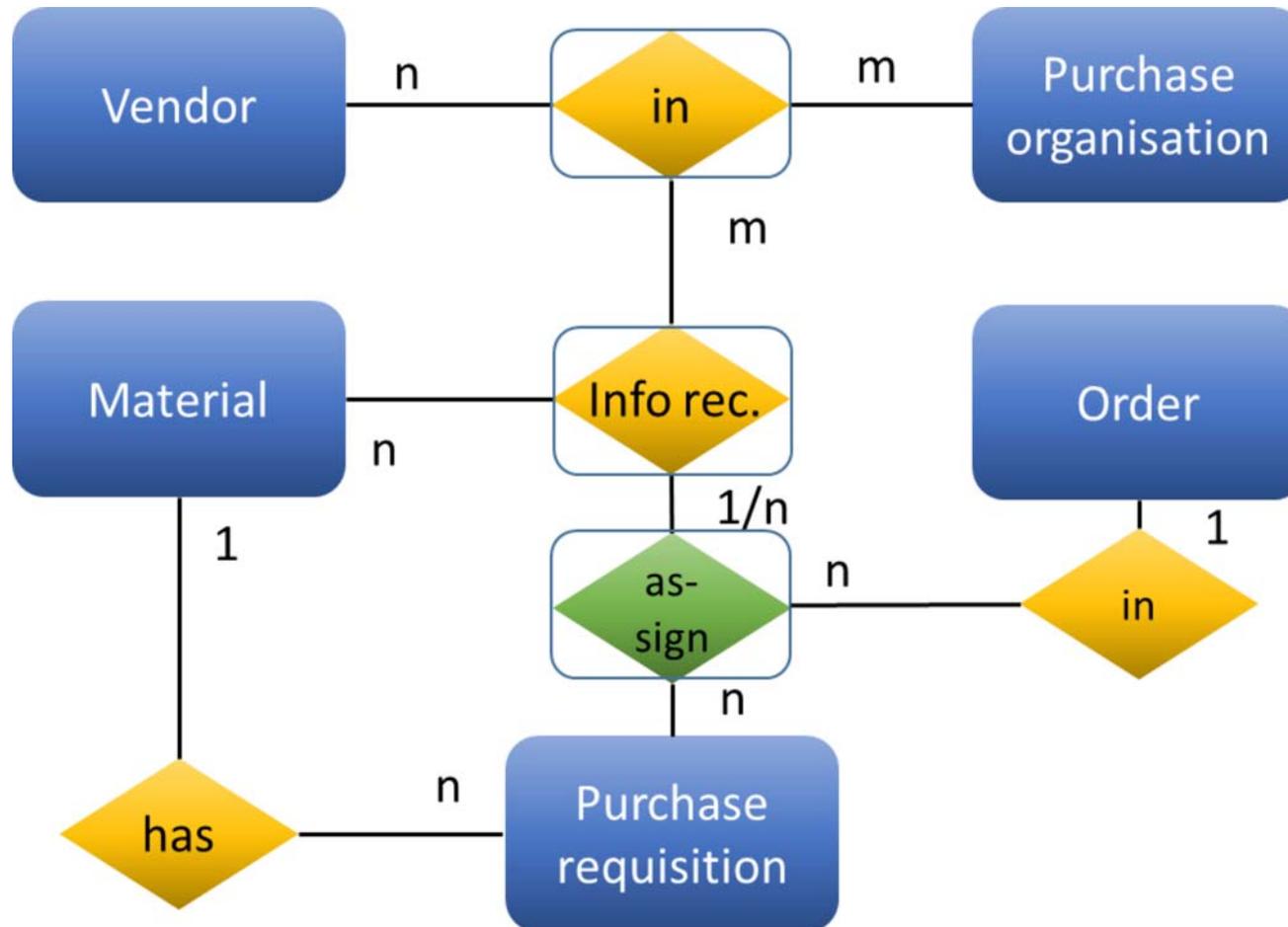
# Procurement



# Procurement



# Procurement



# Production

Order release

Goods issue

Confirmation

Goods receipt

OH/actual

Settlement

# Production

Order release

Goods issue

Confirmation

Goods receipt

OH/actual

Settlement

# Cost Accounting

