



## Inventory & Warehouse Management

“Let’s stock it”

# Inventory & Warehouse Management – Business Scenario

In a warehouse, stock can be moved around or located in a specific place. These movements need to be tracked, as well as the number of stock we have of a certain product. When a certain amount of a product is bought, we call this a lot.

Questions:

1. Why is a 'lot' different from the product as such?
2. Each year, we need to count the stock and inspect it for quality. Why?

Answers:

1. The general properties etc. of the material is considered to be Master Data. When we buy however a quantity at a certain moment from a certain supplier, this is a specific lot. This lot is transactional data. We buy many lots of the same material. They are the result of a transaction.
2. Goods get lost, broken, moved to wrong places, stolen...



# Inventory & Warehouse Management – Business Scenario

Questions:

3. What kind of data do we need in the ERP system to run a warehouse?

Answer:

Master data:

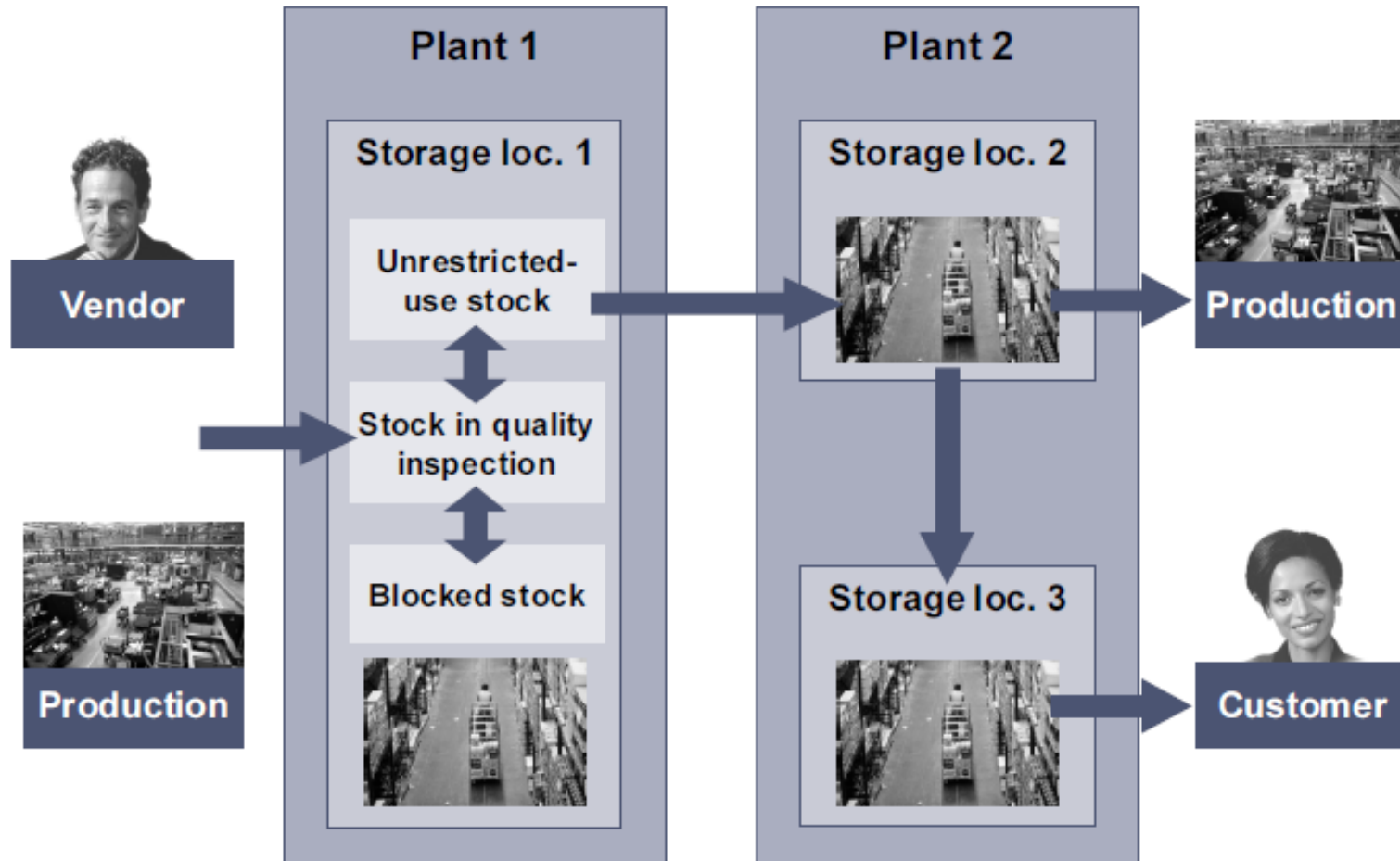
- Materials
- Physical location
- Warehouse

Transactional data:

- Goods move documents
- Tasklists (to move goods etc.)
- Counting documents
- ...



# Inventory Management – Goods Move around!



All movements need to be registered & traced in the system

# Inventory Management: Physical Stock

Stock can be wrong, due to:

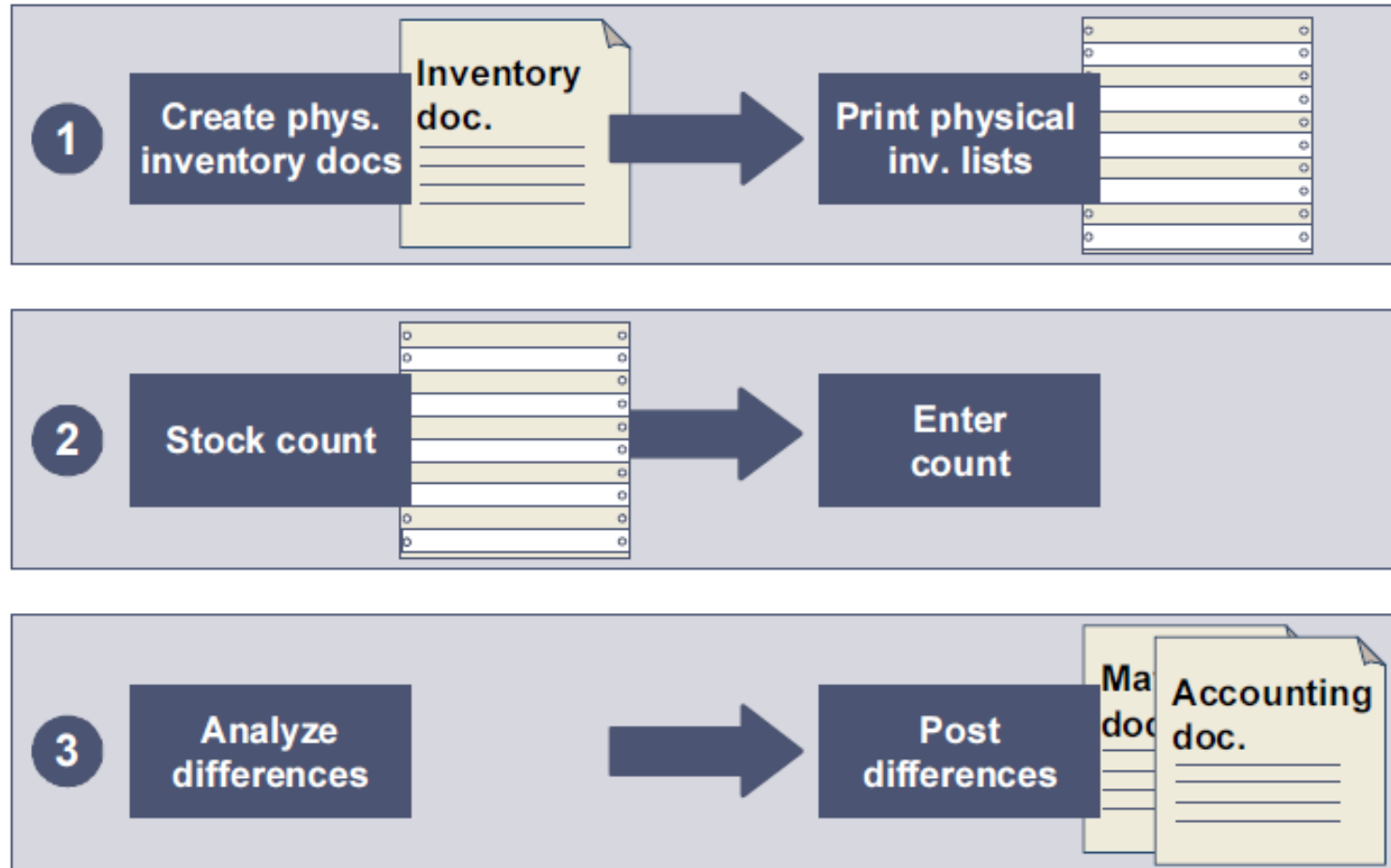
- Miscounts
- Damage
- Theft

Stock numbers need to be correct

- For MRP
- For Financial Accounting
- For Management Accounting
- ...

So we need to verify the numbers!

# Inventory Management: Stock count process





## Sales order Manageme

“Let’s sell it”  
122

# Sales order Management – Business Scenario

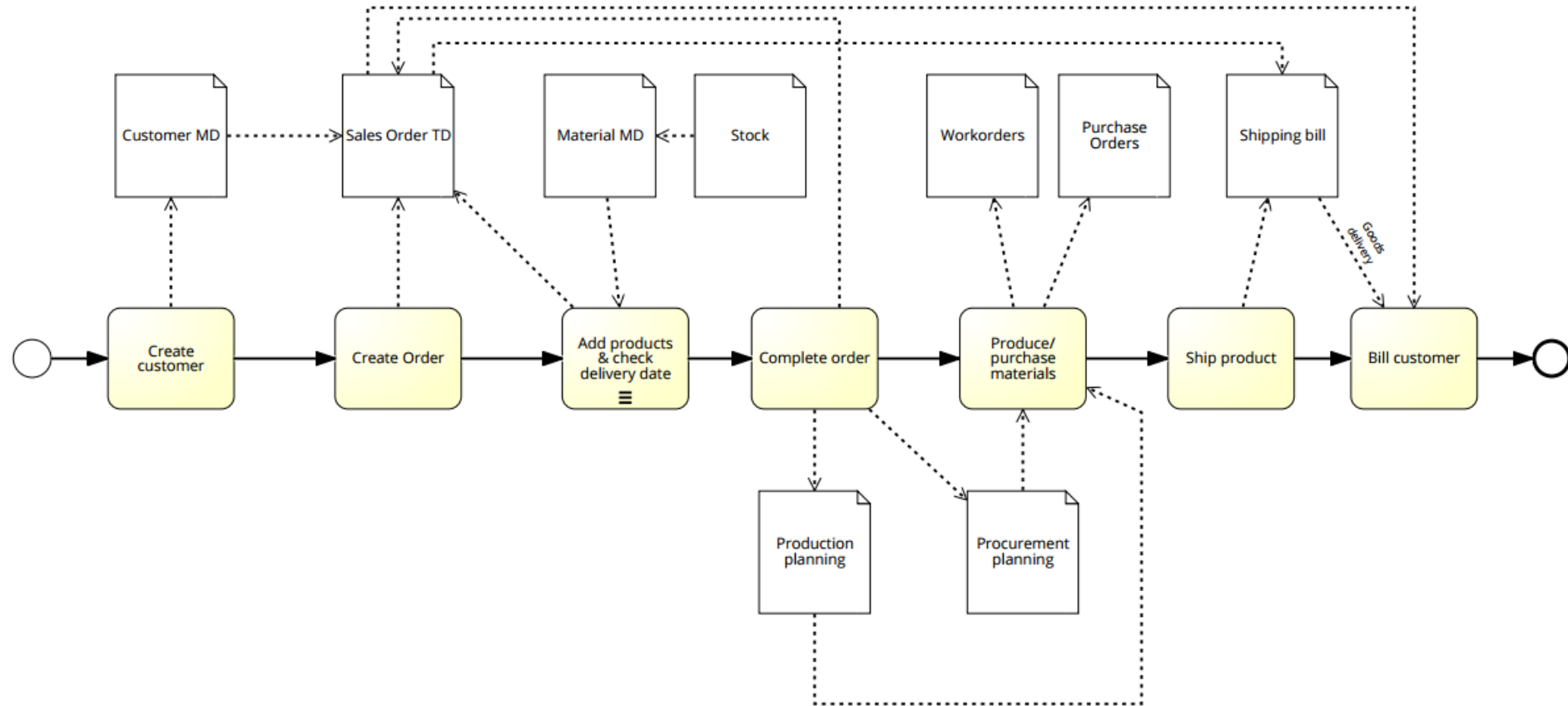


A new customer is interested in buying a car. Before you can accept the order, you must first create the customer in your system. Once the sales order is entered, you'll have to add products to it and check the possible delivery date (based on production planning or stock). Next, you'll complete the order.

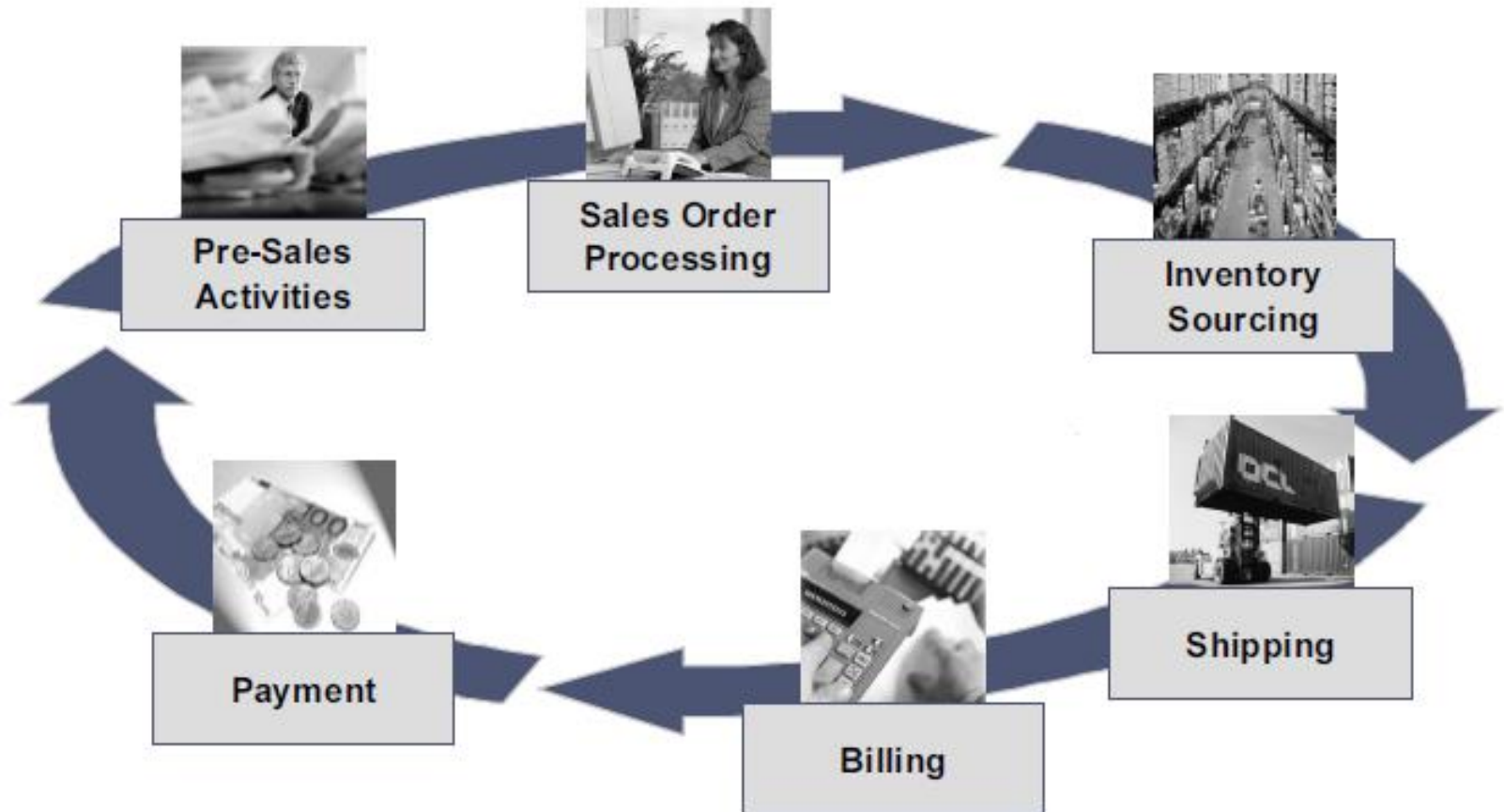
The products ordered will have to be produced/purchased, delivered and invoiced to this customer.



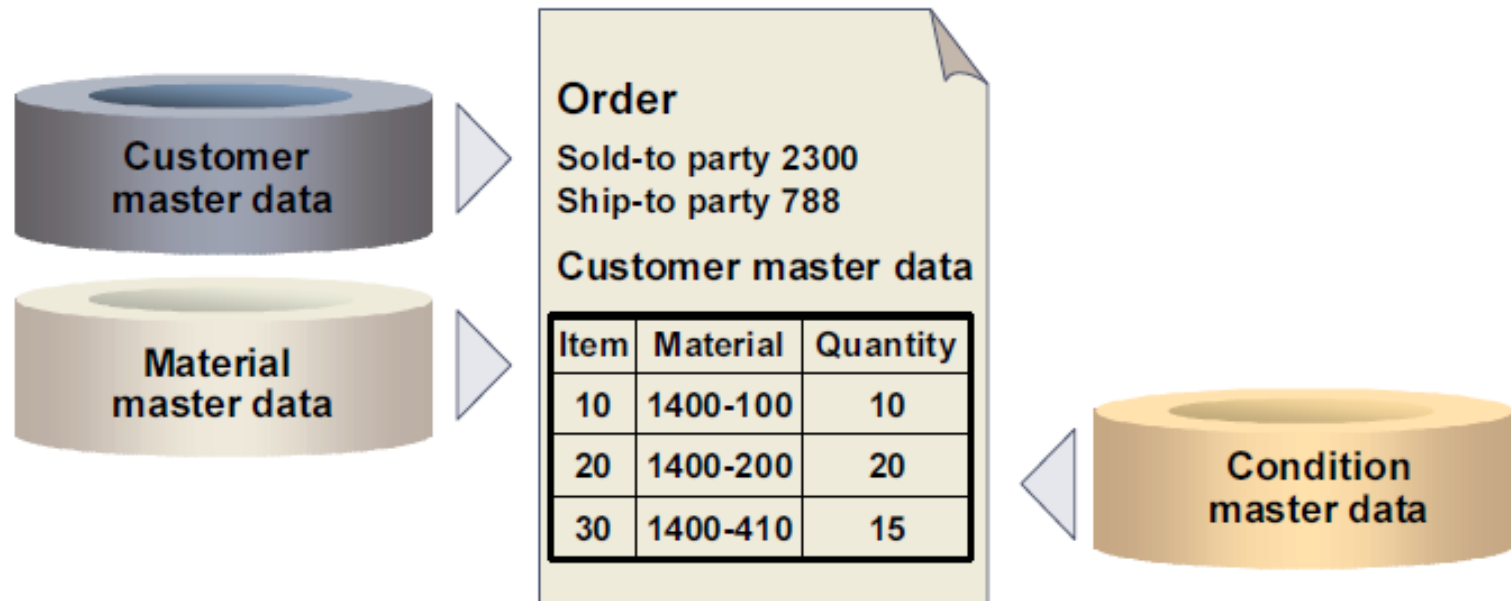
# Sales order Management – Business Scenario



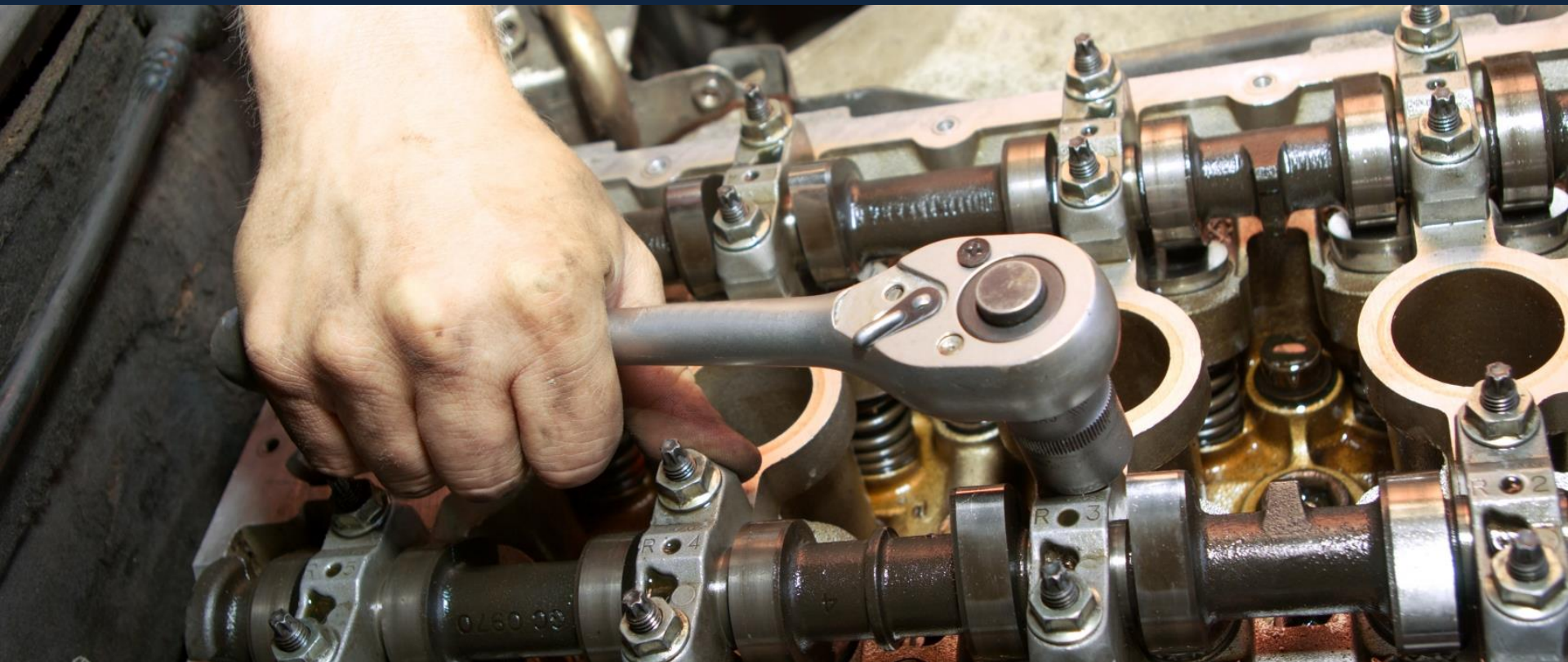
# Sales order Management – Business Process



# Sales order Management – Master Data



- \*Who can buy what at what price?
- \*What VAT should be charged?
- \* ...



**Enterprise Asset Management & Customer Service**

“Let’s maintain it”  
128

# EAM & CuStomer Service – Business Scenario

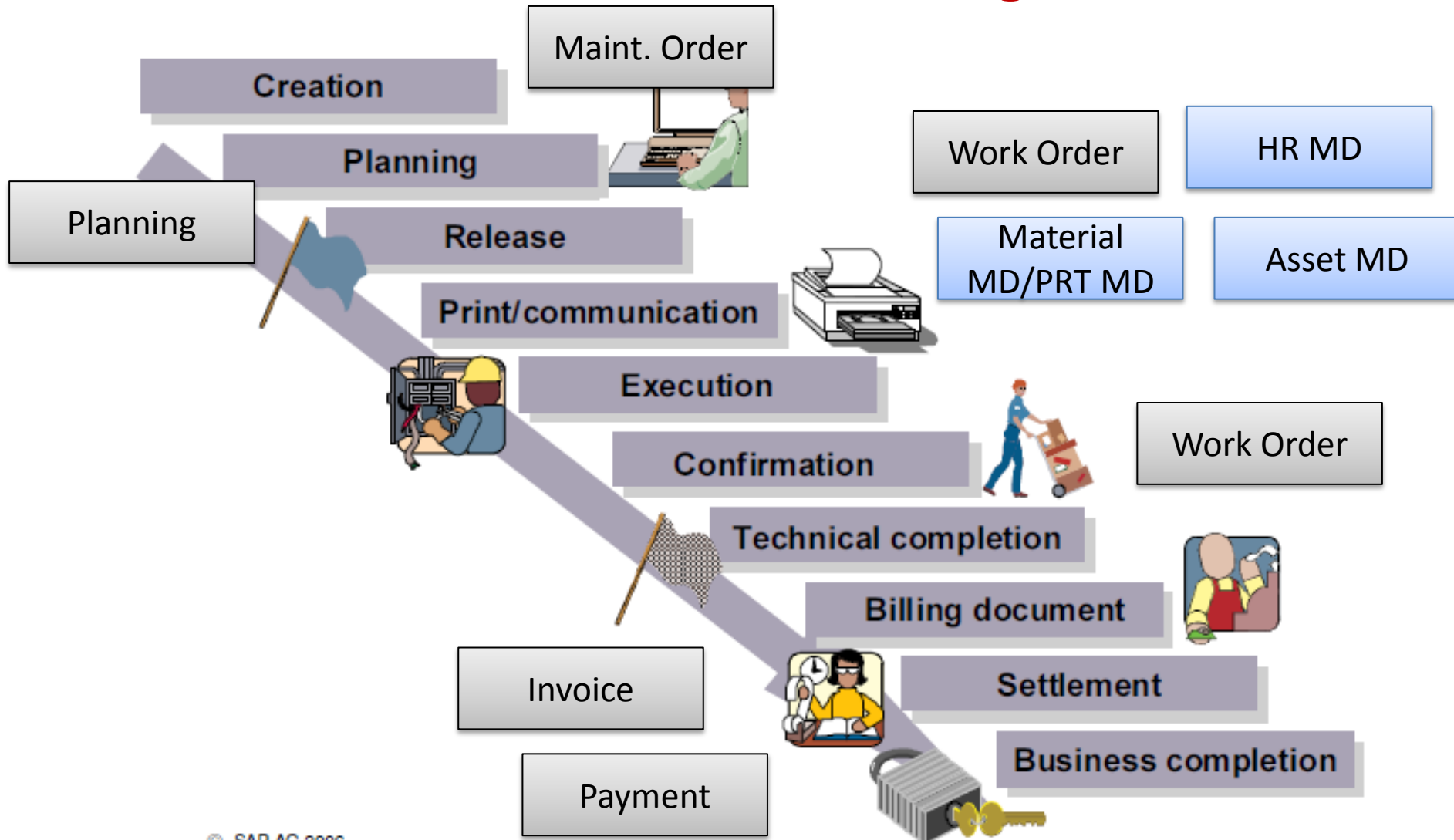
## Possible scenarios that make use of the module:

A pump isn't working anymore in one of your plants. When this happens, the person who notices this, should create a notification. This is called a maintenance notification. Based on this notification, a maintenance order is created by the system. The order is used to plan and monitor the repair activities, so the company is sure the pump will be repaired. It is also used to plan and track the costs of the repair.

The same thing could happen at your customer: a piece of equipment that you sold to them needs to be repaired. They will notify you and a service notification will be logged. A service order will then be created, to make sure the equipment of your customer will be repaired.

EAM = Enterprise Asset Management

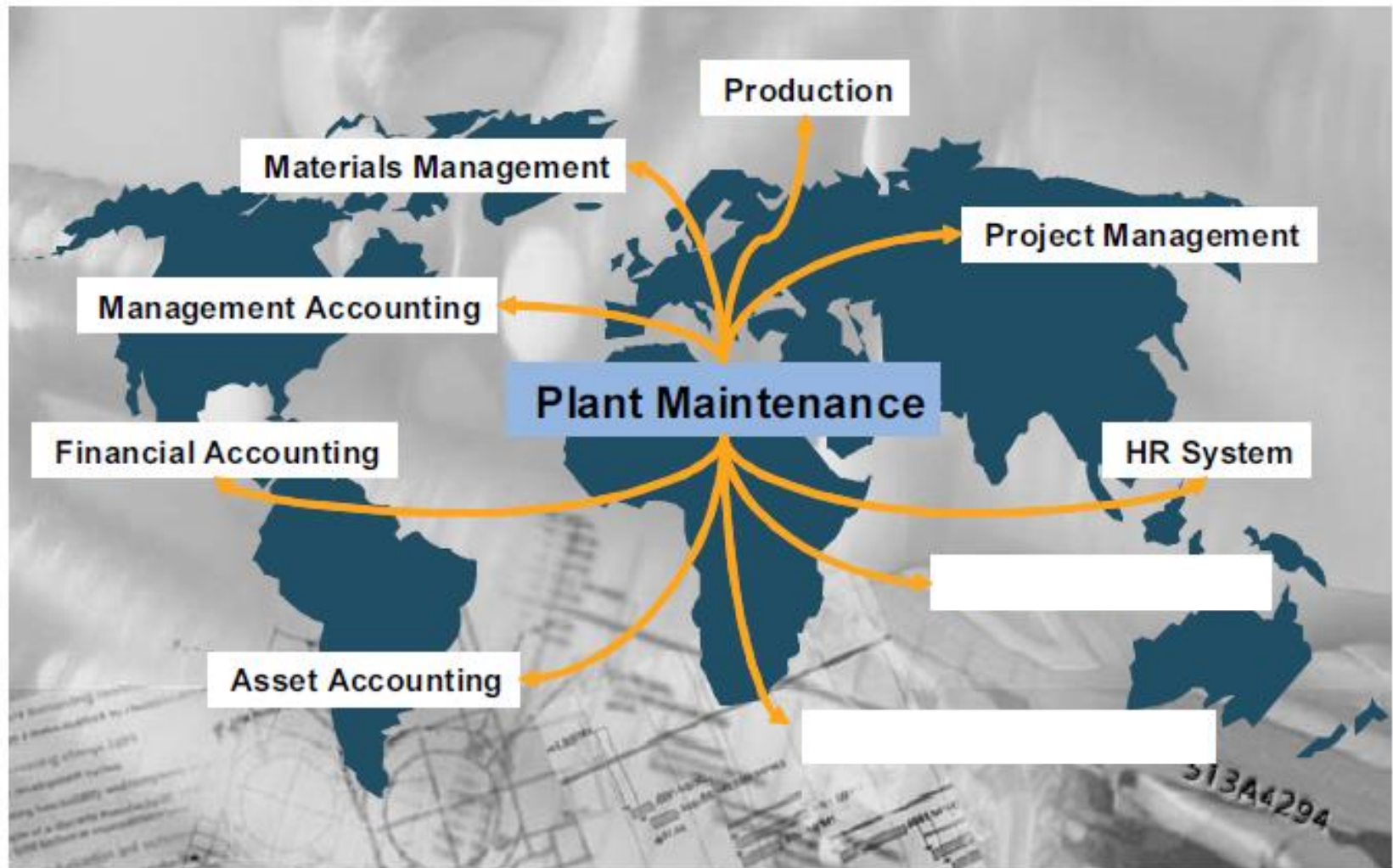
# EAM & Customer Service – Integration



© SAP AG 2006



# EAM & Customer Service – Integration





## Project Management

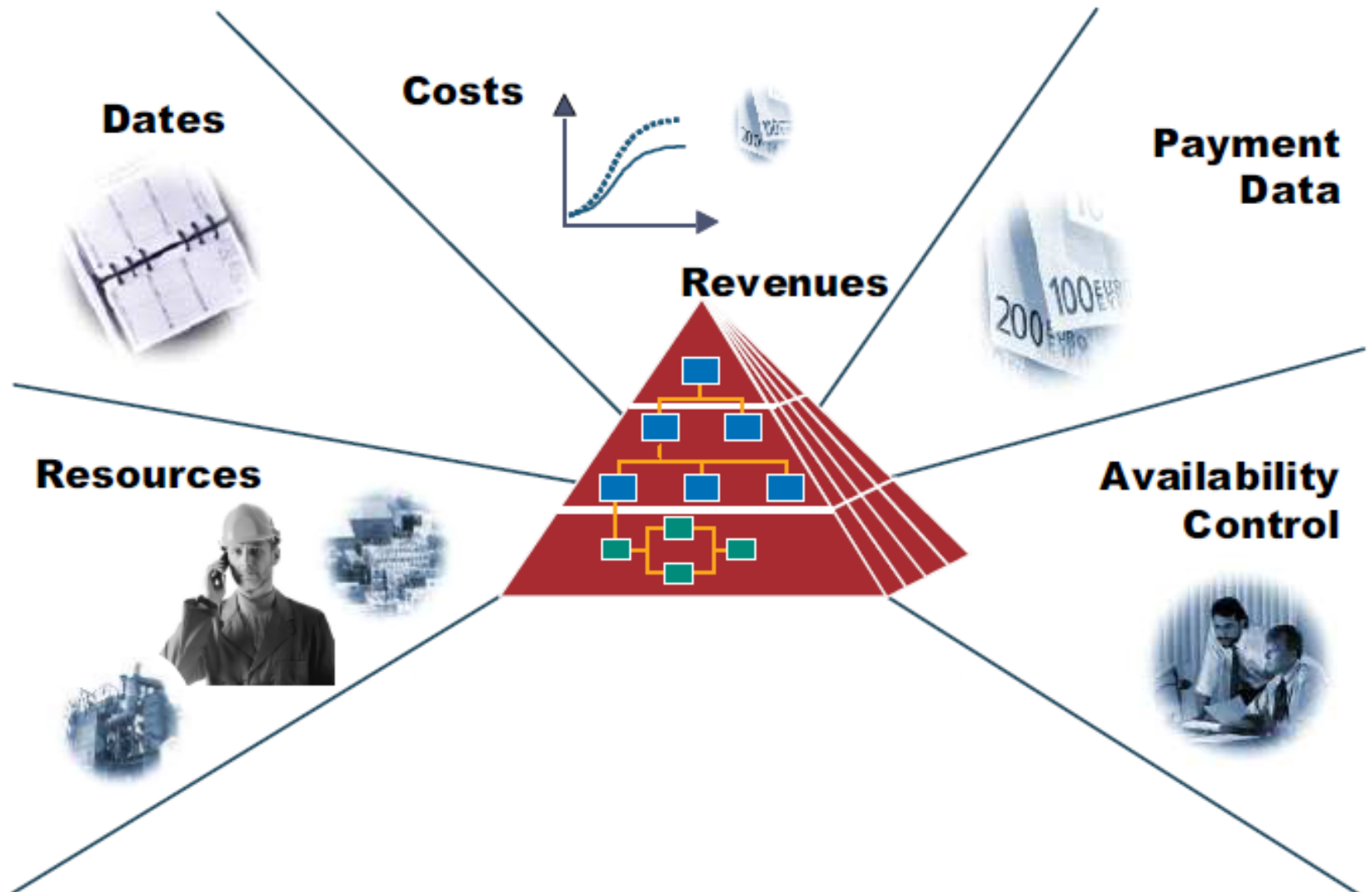


# Project Management – Business Scenario

## **Possible scenario that makes use of the module:**

The organization you work for, is implementing a new software package. You want to plan and monitor the project. For this, you need to know when people are available and set deadlines, but you also want to be able to track the costs. After all, you'll need to know the total cost of the software. To do this, you'll need to be able to track all purchases (software and external consultants), as well as internal personnel costs, used for this project.

# Project Management





## Human Capital Management

# Human Capital Management – Timesheets



## **Possible scenario that makes use of the module:**

As an organization, you set business objectives that you want to reach or achieve. In order to be able to do this, you'll need to make sure you have the right human capital in your organization available. For example, in order to implement the new software package mentioned before, you'll need to know which resources have the right capabilities and if they are available. You also need to be able to manage your payroll, in order to make sure everybody is paid correctly and the costs of an hour spent, is known.

# Human Capital Management - Timesheets



Master Data

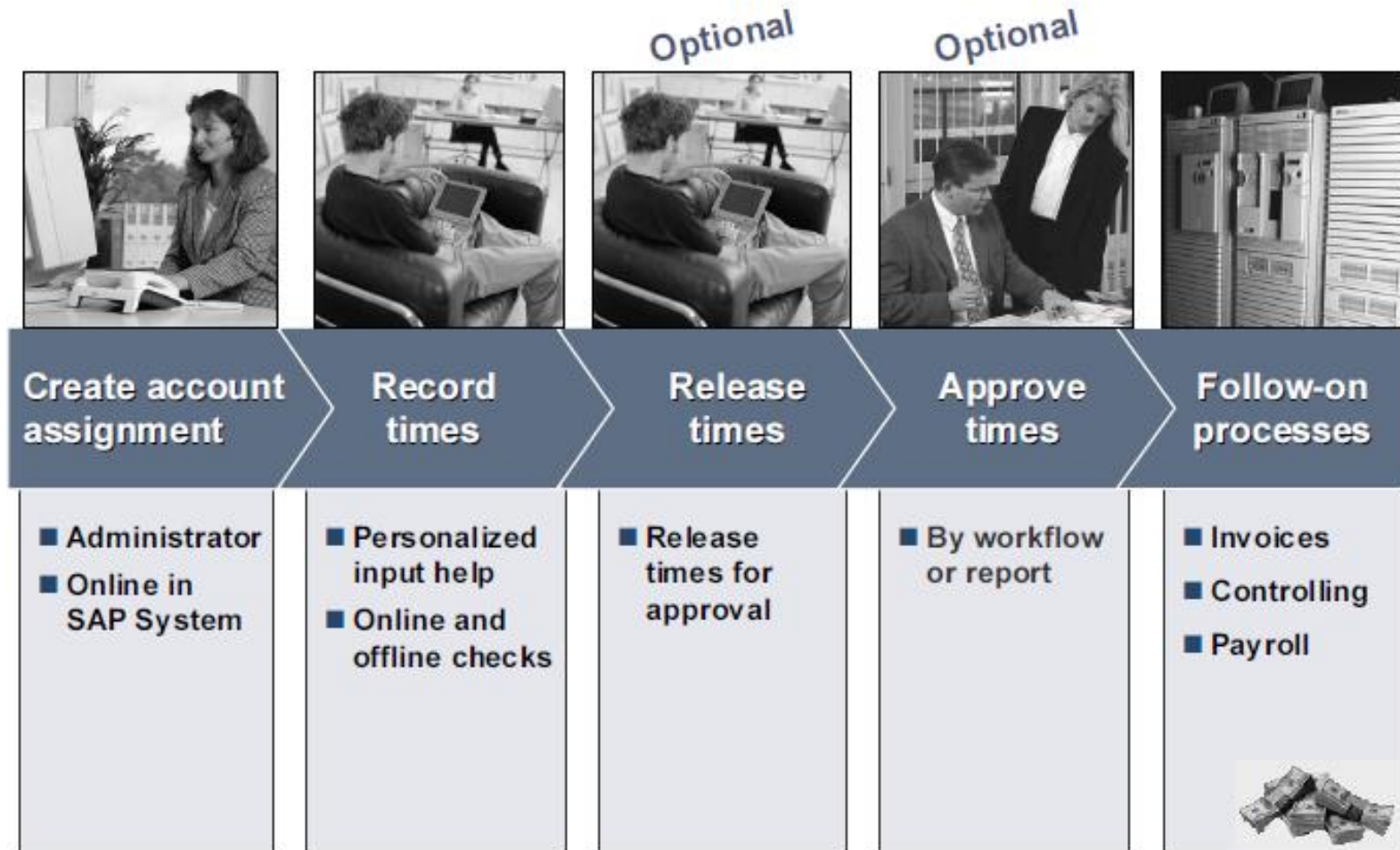
Employees (skills, wage information & availability)

Transactional Data

Timesheets

Payments

# HCM – Integration Example: Timesheets



# Human Capital Management - Integration



Exercise: we have seen different modules in an ERP system. Try to imagine where the data from HC could be used. Do this for each of the following:

Procurement

Material Planning

Manufacturing

Sales

EAM & Customer Service

Project Management

Finance

# Human Capital Management - Integration



Exercise: we have seen different modules in an ERP system. Try to imagine where the data from HC could be used. Do this for each of the following:

Procurement (Approval of PO's by manager)

Material Planning (Capabilities of Human Resources)

Manufacturing (Planning: availability of Human Resources)

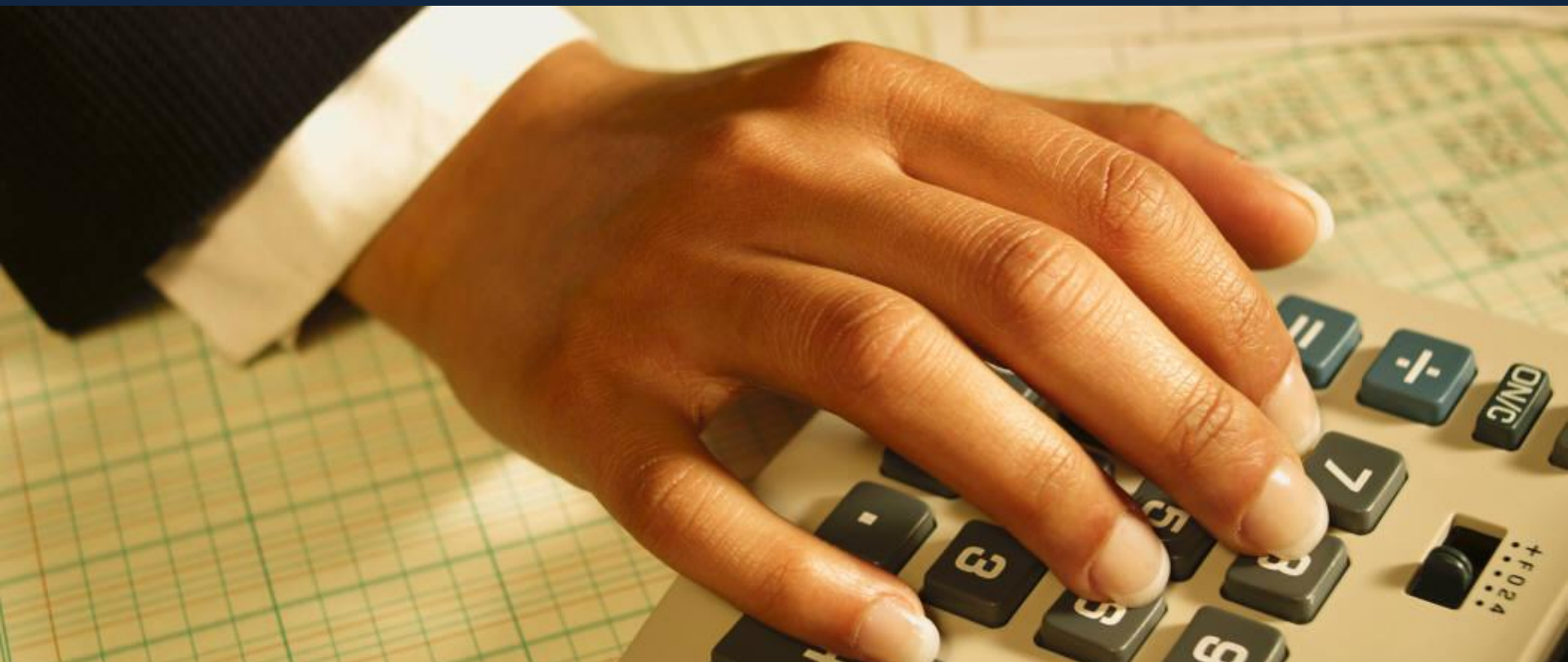
Sales (Services as a product: how much does a resource cost?)

EAM & Customer Service (Ownership of assets: whose car is this?)

Project Management (Planning, timesheets, travel costs...)

Finance (Payroll, ...)





## Financial Accounting

# Financial Accounting – Business Scenario



## **Possible scenario that makes use of the module:**

Financial Accounting needs to be able to track and book all income, expenses, depreciations etc. For example, when software is purchased, the vendor invoice needs to be booked on the right accounts. And the invoice needs to be paid as well. The total cost of the software development project needs to be tracked and activated, so its total cost can be spread over different years and depreciation can be tracked. You'll need an asset master record for the software and transfer the costs to the right account and record.

On the other hand, if you sell anything, the sale needs to be booked and the invoice received. You will need to be able to process electronic bank statements and match the payments against open customer invoices. At the end of each quarter, you'll need to file your VAT statement. This should be generated automatically, based on the sales and purchases you've made. The system will know in which category a VAT amount needs to be declared, thanks to automatic assignment, which was set-up, based on the accounts, used for the bookings.



# Financial Accounting – Types of data

## Master Data

G/L accounts (where do we book what)

Assets (like cars)

Customers

Vendors

Banks

## Transactional Data

Payments

Invoices

G/L bookings

...



## Management Accounting

# Management Accounting

**Basic idea:** Getting the figures right to support internal Management decisions, by assigning the costs to those who caused them.

Management accounting is a way to track and analyze your

Costs (& profits) related to your divisions/operations (OPEX)

Costs (& profits) related to your projects (CAPEX)

Overhead costs

# Management Accounting

Why do we need this?

Because we need to understand what's generating our costs

How do we do this?

By tracking and assigning costs to those who caused the costs

What are common terms used in Management Accounting?

Cost Centers (who is charged for the costs?)

Distribution Keys (how to divide the costs?)

WBS elements for project follow-up

Campaigns/orders (like cost centers, but short-term)



# Overhead distribution – Example

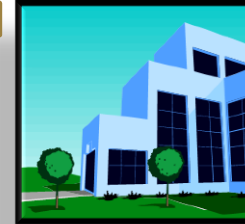
Direct Costs:  
-Vendors



No Key needed

Key = % of office surface  
50 %

Cost Center Cafeteria (200 M<sup>2</sup>)



Total surface:  
400M<sup>2</sup>

Indirect costs:

- Heating
- Electricity
- Maintenance

Key = # staff



Cost Center "Accounting"

Key = # staff



Cost Center "Sales"

Key = # staff



Cost Center "Marketing"

Key = % of  
office surface

20 %

10 %

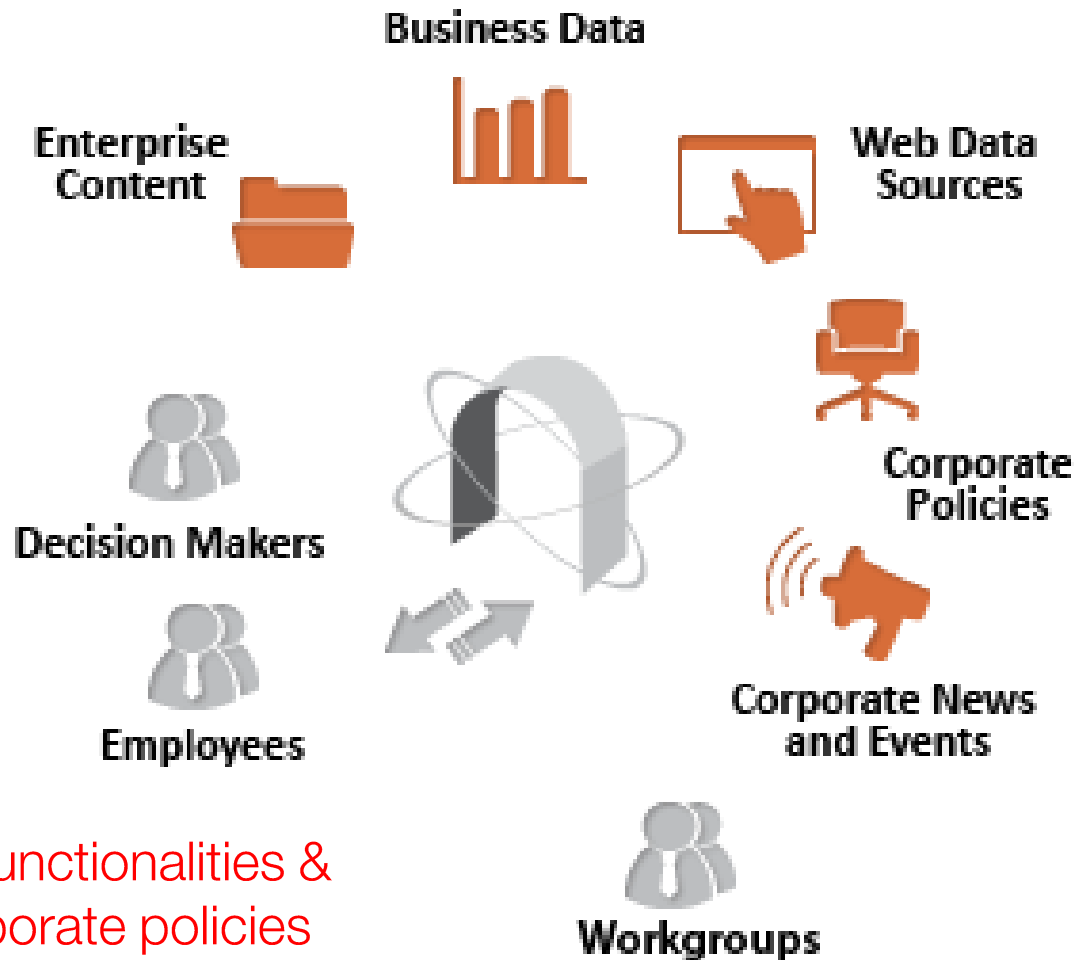
20 %



**EIS PORTAL CONCEPT: 1 ENTRY POINT FOR ALL THE NEEDED FUNCTIONALITY**



# ERP Into Detail – Single Sign-on



# Example: SAP Enterprise Portal

The screenshot displays the SAP Enterprise Portal interface for user Sabine Thibodeaux. The top navigation bar includes links for Home, My Pages, Applications, Products, and Information. Below this, a secondary navigation bar shows My News, My Work, My Assets, and My Documents. The main content area is divided into several sections:

- You are here:** A sidebar menu showing a hierarchy of links: WorldWide News, Stock Mmarket, Internal News, SAP Updates, Business Related, Technology (selected), What's new in the Web, Java Updates, My Customers, Management, Markets, Marketing, HR News, and Entertainment News.
- Targets:** A list of targets including Protesilaum Leum and Mercurius.
- See also:** A list of related links: Locutus eumolpoque, Approbavi qui animas ducere et, Protesilaum Leum, and Locutus Leum.
- Furiarum Declamatores:** A section titled "Operi modo oculos et finge te non humana viscera" with tabs for Example 0, Example 1, Example 2, and Example 3. It contains a table with columns Name, Website, and Comment.
- Colloquium:** A section titled "Eumolpoque approbevi" with a table containing Name, Website, and Comment.
- Demosthenen ad hoc Genus:** A section titled "Haec locutus sustuli tunicam" with a list of links: Ohorae, Ousust, and a list of images.
- Tuis Obstem:** A section titled "Mercurius Enim" with a paragraph of text and a list of links.
- Adulatores:** A section titled "Videbantur" with a list of links and a search bar.
- Non Concliderare:** A section titled "Non Concliderare" with a list of links.

The interface is designed with a clean, professional look, featuring a light blue and white color scheme. The SAP logo is visible in the top right corner.

# Personal Portal – iGoogle (service ended november 2013)

Zoeken Afbeeldingen Maps Nieuws Vertalen Boeken Mail Meer - jonas.vanriel@themasterlabs.com -

iGoogle

Thema wijzigen

### Google Documenten

Zoeken in recente documenten

- Vragen over XMLs 12 jan.
- SNACK Bestellijst 9 jan.
- Installing a new version of the CDB application.docx 3 jan.
- 0. Overzicht Financiële rapporten\_Revied JVRI.docx 27-12-11
- 00\_Reports\_list 20-12-11

Weergeven Nieuw Alle documenten »

### Gmail

Postvak IN – Bericht opstellen Acties...

- ☐ me, Van Riel (7) - Vraagje - Voor de overuren: ge kunt nu blijkbaar 130 overuren voordelig belast laten uitbetalen, mag gewoon ...
- ☐ KEYTECH - Bart, me (2) - CDB2 - Routes - FYI Met vriendelijke groeten / Très cordialement / Kind regards Jonas Jonas Van Riel
- ☐ me, IT (3) - ODBC connector voor Popsy - Jonas, De odbc is aangemaakt (32bit odbc als system odbc) en de web.config is
- ☐ Trend - Trend Micro Newsletter - The power of encryption and why we should use it - This message contains graphics. If you do not

### Google Translate

Geef hier een tekst op ter vertaling

Engels Nederlands Vertalen

### Wikipedia

W

### Weerbericht

Antwerpen

1°C Huidige situatie: Onbewolkt  
Wind: O met 8 km/h  
Luchtvochtigheid: 75%

ma	di	wo	do
3°   -4°	4°   -1°	7°   5°	8°   4°

### Google Agenda

januari 2012						
M	D	W	D	V	Z	Z
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

### Taken

Lijst 1 VOLLEDIG SCHERM

Voeg nieuwe taak toe...

+ Nieuwe lijst

### Google Nieuws

Voorpagina Buitenland België Economie Wetens