Todays Presentation

SAP

What is SAP MM ?

SAP **M**aterial **M**anagement
نظام إدارة المواد
فى الشركة

SAP

What is Material Management ?

Material Management Manages All Supply Chain Processes From Material Demanding To Material Receiving in The Company Warehouses, including Material invoicement And Material issue To Customer Too.

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What is Supply Chain Management ?

Supply Chain manages All Procurement Processes For The

following jobs:

1- Stock Controller Or Material Planner Or Material Controller Department

2- contracting Department

3- Purchasing Department

4- inventory Department

What will you benefit from Studying MM?

You Will Be Able To Manage And Support All MM Cycles From PR To Payment And Can Be Consultant To Make Functional MM Configuration To SAP System For MM End Users

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INTRODUCTION ERP SYSTEM

SAP = ERP

What is ERP?

_E_nterprise **_R_**esources **_P_**lanning

نظام تخطيط موارد المؤسسة

SAP

نبذة مختصرة عن ERP SYSTEM نظام تخطيط موارد المؤسسة

Supply Chain Departments And Tasks

Warehouses

Make Good Receipt – Good issue For Materials To Production Line Or Customers

Purchasing

Create Purchase Order And Send it To Vendor And Follow Vendor Until Supplying Materials

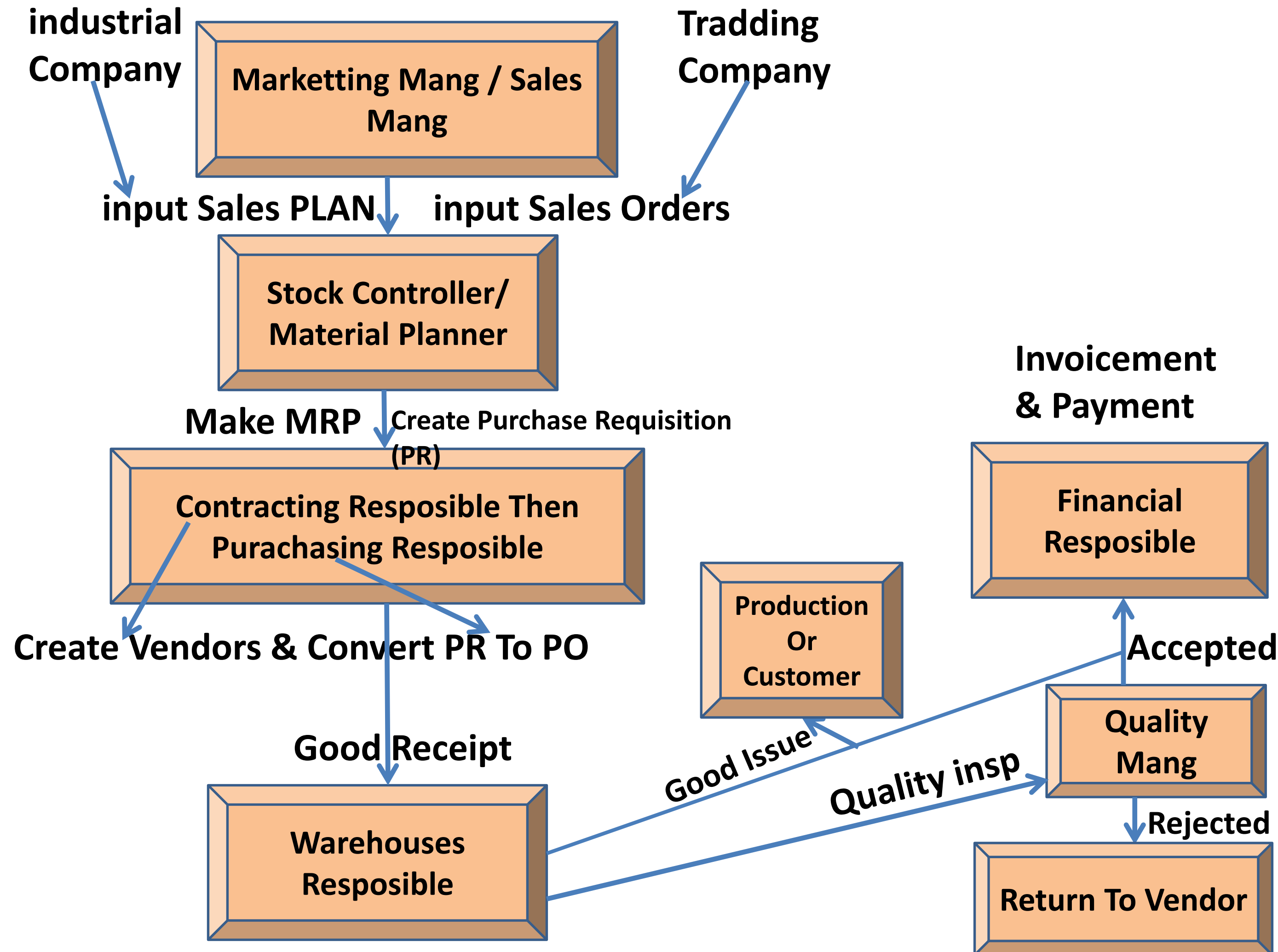## Contracting

Search For New Vendors For Materials – Create Agreements With Vendors

Stock Controller

Material Demanding – Create Purchase Requisition

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ERP Steps For Materials Requirement

industrial Company

Tradding Company

Marketting Mang / Sales Mang

input Sales PLAN

input Sales Orders

Stock Controller/ Material Planner

Make MRP | Create Purchase Requisition (PR)

Invoicement & Payment

Contracting Resposible Then Purachasing Resposible

Financial Resposible

Create Vendors & Convert PR To PO

Production Or Customer

Accepted

Good Receipt

Good Issue

Quality Mang

Quality insp

Warehouses Resposible

Rejected

Return To Vendor

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What and Why ERP?

- Enterprise resource planning (ERP) systems are used by organizations looking to manage their business functions within a centralized and integrated system.

- ERP is commonly used by companies working within the supply chain to help keep track of all the moving parts of manufacturing and distribution

- ERP stores all entered data into a single database, allowing all departments to work with the same information
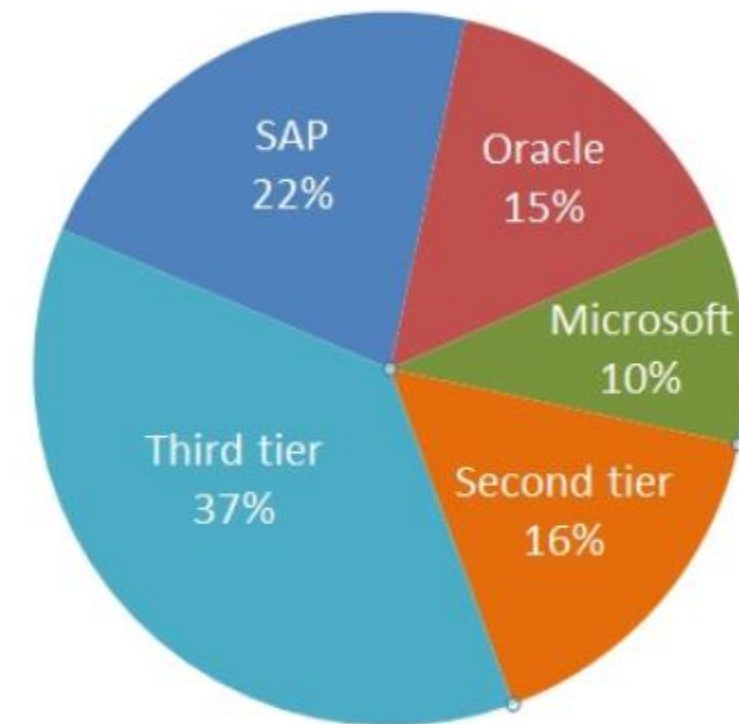
Why ERP ?
1) Improved Collaboration
2) Better Analytics
3) Improved productivity
4) Customer Satisfuction
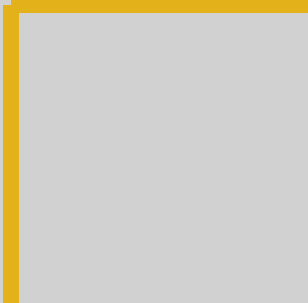5) Improved Inventory Monitoring

Some of ERP Products:

- **SAP** (1972-German)

- **Oracle** (1977-Multi National)

- **People Soft** (1987-American)

- **D Edwards** (1977-American)

ERP MARKET SARE

INTRODUCTION To SAP IN GENERAL

SAP Meaning **S**ystem **A**pplications and

Products in data processing**"**

SAP was founded in *1972*
by five former IBM
employees in Mannheim,
Germany
SAP " **S**ystem **A**pplications and
Products in data processing**"**

Dietmar Hopp, Hans-Werner, Hector Hasso Plattner Klaus Tschira, Claus Wellenreuther
1972

SAP Customer References

SAP Customer References in Egypt

SAP Customer References in Egypt

- Amer Group
- Innovative Technology
- Daewoo Motor Egypt
- Nissan Gulf FZCO
- Juhina
.(ASEC)
- Amer
- Universal
- AutomotiveGate Egypt
- TOSHIBA
- FRESH
- BMW EGYPT
- CHEVOLRLET EGYPT
- Mass Food International
- British Petrolum
- Badr El Din
- Shell Egypt
- ESACO

- AGIBA
- Cadbury
- Sphinx Glass Company
- Hamza Brothers Supplying Company
- National Company for Development . .
- Bavarian Auto Trading Co.
- Valeo
- Al Mansour Automotive Company
- Amoun Pharmaceuticals
- Mass Food International
- Misr October for Food Industry (ENJOY)
- Multipharma Company
- Alexandria for Food (FARAGALLAH)
- Carrier
- MCV
- Metra Computer
- ABB
- Kapci

SAP Versions

SAP Ariba	SAP S/4HANA	**SAP ECC** SAP SRM	**SAP ECC** SAP MM
This is the most advanced procurement suite by SAP. It covers all processes from Source-to-Pay.	S/4HANA is SAP's next generation ERP business suite with Sourcing & Procurement.	Previous generation e-Procurement solution. It supports all Operational and Strategic Procurement processes.	This is the procurement module within SAP ECC. It supports all operational Procurement Processes.
➕ Cloud-based	➕ Cloud or On-Premise	⛔ SAP supported until 2025	⛔ SAP supported until 2025
➕ Standard out-of-the-box content	➕ Procurement processes in ERP	⛔ No innovations	⛔ No innovations
➕ Easy to use	➕ Easy to use with SAP Fiori	⛔ Less easy to use	⛔ Not easy to use
➕ One platform incl. Ariba Network	➕ In-memory platform	➕ Many improvements possible	➕ Many improvements possible

The opportunities for your organisation per solution – innovate and improve

SAP Ariba	SAP S/4HANA	SAP SRM	SAP MM
⭐ Cloud delivery model resulting in a low and predictable TCO	⭐ Cloud delivery model resulting in a low and predictable TCO	⭐ TCO reduction with the SRM OneClient (SRM on top of ECC)	⭐ Improve the usability with SAP Fiori apps.
⭐ SAP Ariba SNAP! best-practice implementation within 12 weeks	⭐ Standard digital communication with suppliers (Ariba Network)	⭐ Improve the usability with SRM UI5 and SAP Fiori apps.	⭐ Improved usability and Catalog Buying with the BeNeering Cloud.
⭐ Process 35k+ invoices annually per FTE with the Ariba Network	⭐ Integration with SAP Ariba Sourcing & Discount Mgmt.	⭐ Embedded Catalog Buying in SRM UI5 and BeNeering Cloud	⭐ Digital communication with suppliers via the Ariba Network
⭐ No training necessary with SAP Ariba 'Guided Buying'	⭐ Process 35k+ invoices annually per FTE with the Ariba Network	⭐ Digital communication with suppliers via the Ariba Network	⭐ Process 35k+ invoices annually per FTE with the Ariba Network
⭐ Innovations are automatically delivered to you monthly	⭐ Embedded Catalog Buying in S/4HANA via the BeNeering Cloud	⭐ Process 35k+ invoices annually per FTE with the Ariba Network	

Functional
- SAP Financial Accounting (FI)
- SAP Controlling (CO)
- SAP Treasury Management (TR)
- SAP Sales and Distribution (SD)
- SAP Customer Service (CS)
- SAP Material Management (MM)
- SAP Transportation Management (TM)
- SAP Warehouse Management (WM)
- SAP Production Planning (PP)
- SAP Quality Management (QM)
- SAP Plant Maintenance (PM)
- SAP Project System (PS)
- SAP Human Capital Management (HCM)
- SAP Success Factor

Technical
- BASIS
- ABAP
- HANA
- BIBW

SAP Modules

SAP MM Module Content

Reports

Configurational Data (Consulting)

Unit 1: Enterprise structure
- Define Plant
- Define Storage Location
- Define Purchasing Organization
- Assign Plant to Company Code
- Assign Purchasing Organization to Company Code
- Assign Purchasing Organization to Plant
- Defining Valuation Area
- Defining Rigions

Unit 2: Logistics General & Materials Managements
- Defining Purchasing Group
- Defining Attributes for Material Types
- Defining Number Range for Material Types
- Defining Field Selection For Material Master Data
- Configuration of Vendor Master Data & Business Partner
- Defining Number Range for Purchase Order
- Defining Number Range for RFQ
- Defining Number Range for Contract
- Defining Document Type for Purchase Requisition
- Defining Document Type for Purchase Order
- Defining Document Type for RFQ
- Defining Document Type for Contract
- Defining Condition Types
- Defining Calculation Schema
- Defining Schema Group
- Defining Schema Determination
- Configuration of Release Strategy
- Valuation and Account Determination
- Movement Types
- Split Valuation
- Batch Management
- Define Unit of Measures
- Define Stock Determinition
- Serial Number Activation
- Master Data Migrate

Transactional Data

- Make MRP
- Migo Warehouses Operations
- Make Subcontracting Cycle
- Make Consignment Cycle
- Create Service Entry Sheet

- Create Purchase Requisition
- Create Contract
- Create Scheduling Agreement
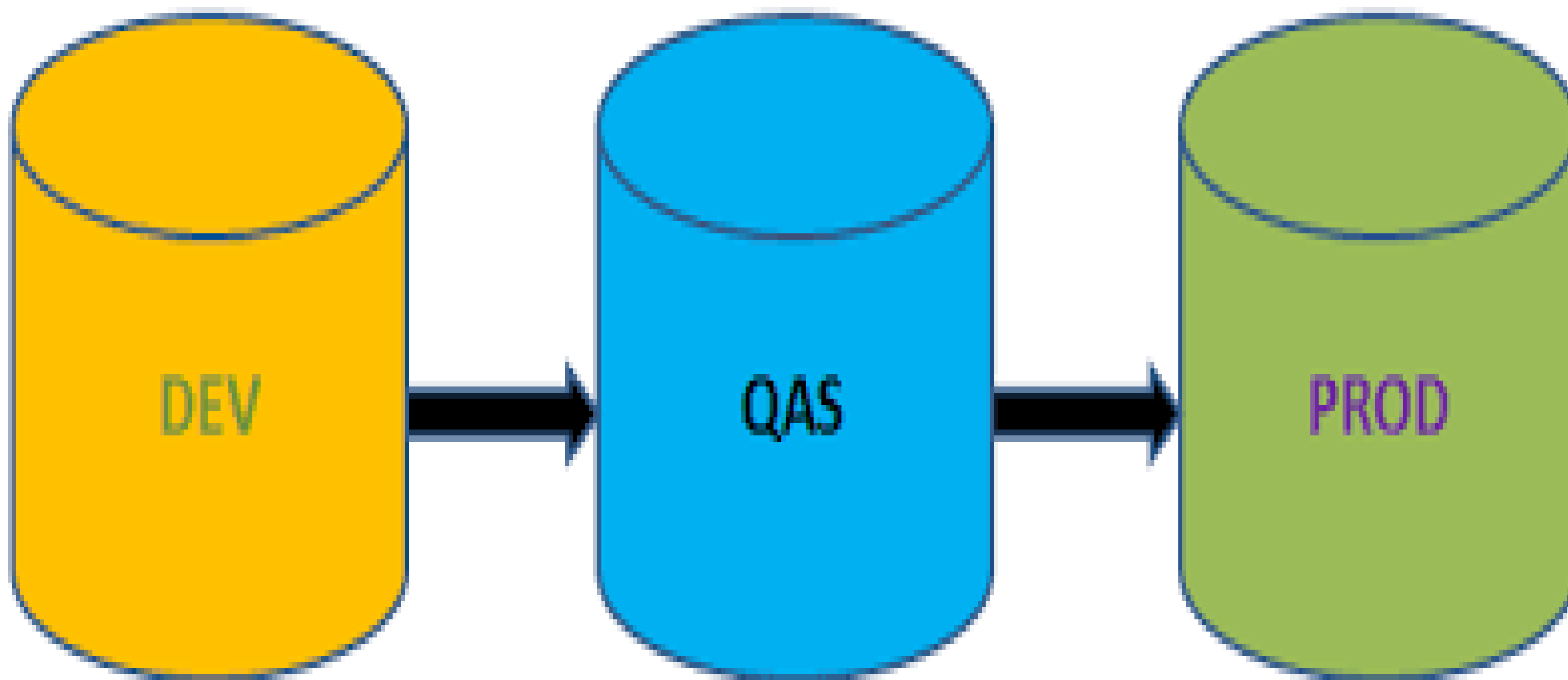- Create Request For Quotation
- Create Purchase Order

Master Data

- Material Master Data
- Vendor Master Data
- Info-Record Master Data
- Source List Master Data
- Service Master Data

SAP Users

SAP End User

SAP Key User

SAP Consultant Functional Module

SAP BASIS

SAP ABAP

SAP

Work tasks for SAP Basis , SAP ABAP , SAP Consultant And SAP End User

- **SAP Basis** responsible for the SAP software runs , system maintenance, system updates , configuration of the SAP system.

- **SAP ABAP** responsible for the programming language which used to develop custom applications for the SAP system such as create custom reports, interfaces and other functionality that is not available out of the box in the SAP system.

- **SAP consultant** responsible for Master data , configuration operations and support to Key Users to solve the problems.

- **Key Users** support to End Users to solve the problems.

- **SAP End User** responsible for the direct operations needed for business

Types of Projects in SAP

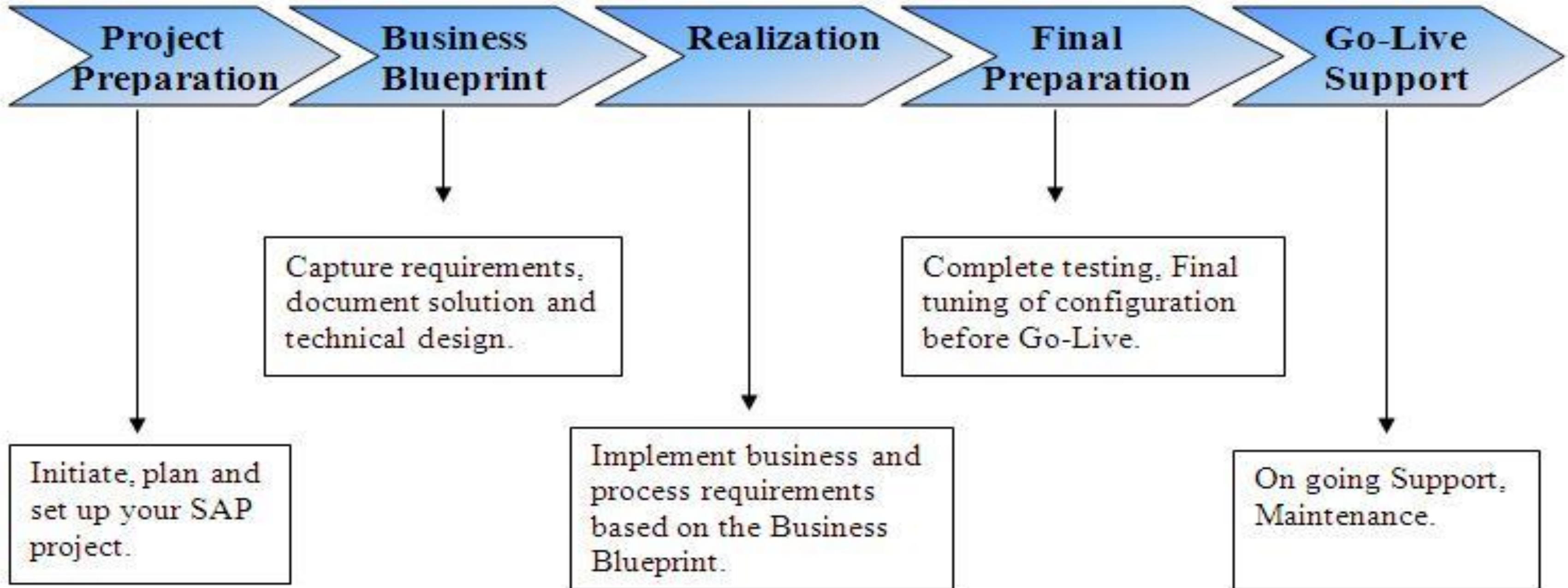| SAP Implementation	SAP Support Project	SAP Upgradation	SAP Rollout

- ► **SAP New Implementation Project**
  - ► Also called : Green Field Implementation
  - ► Company has another ERP system or has no ERP System and wants to implement SAP
- ► **SAP Roll-out Project**
  - ► Company already has SAP but needs to add a new Company or plant to the system
- ► **SAP S4/HANA Conversion Projects**
  - ► Also called: Brown Field Implementation
  - ► Company has SAP ECC and wants to convert it to SAP S4/HANA system
- ► **SAP Support Projects**
  - ► Company already has SAP and want to support daily business process or activate new functionalities
- ► **SAP Upgrade Projects**
  - ► Company already has SAP and want to upgrade from SAP S4/HANA 1709 to S4/HANA 2020

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SAP implementation Methodology

- **For SAP ECC - The Recommended Methodology is *ASAP* -- *Accelerated SAP***

- **For SAP S/4hana - The Recommended Methodology is *SAP Activate***

ASAP Methodology For SAP ECC（Old）

| Project Preparation | Business Blueprint | Realization | Final Preparation | Go-Live Support |

Business Blueprint: Capture requirements, document solution and technical design.

Final Preparation: Complete testing, Final tuning of configuration before Go-Live.

Project Preparation: Initiate, plan and set up your SAP project.

Realization: Implement business and process requirements based on the Business Blueprint.

Go-Live Support: On going Support, Maintenance.

initial Preparation

- **Project Management Related Activities**

✓ **Create The Project Plan**

✓ **Define Project Members And Contacts information**

✓ **Kick-Off Meeting**

✓ **Book Meeting Rooms**

✓ **Explain Project Plan To Business Key Users Or Department Managers**

Business Blueprint

➢ *Consultant hold Meeting With Business Key Users And Decision Makers in Order To Understand The Daily Business Process And Other Requirements*

➢ *After The Agreement With Business ,The Blueprint is Ready Now With :*

✓ *Which Business Process Will Be implemented*

✓ *What is The Configuration Needed*

✓ *What is The Developments Needed*

Realization

➢ *The Functional Consultants Will Start Configure The System For Each Module*

➢ *The Technical Consultants Will Start The System Customization/ Developments*

➢ *The Functional Consultants Will Start The Unit Testing For his Module*

➢ *After All Modules Finish Configuration And Customization , Now is Ready An SIT (System integration Test) Should Be Started*

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Final Preparation

- ➢ *SAP Consultants Will Show The Ready System To Business Users And Fine-Tune The System if Needed*

- ➢ *SAP Consultants Will Give Training To The Business Users*

- ➢ *SAP Consultants Will Provide Test Scripts To Business Users*

- ➢ *Business Users Will Start Testing The System (UAT – User Acceptance Test)*

- ➢ *Preparation Of Go-Live Will Start*

- ▪ *Define Data To Be Migrated (Templates And Records)*

- ▪ *Define Cut-over Activities*

Go-live And Support
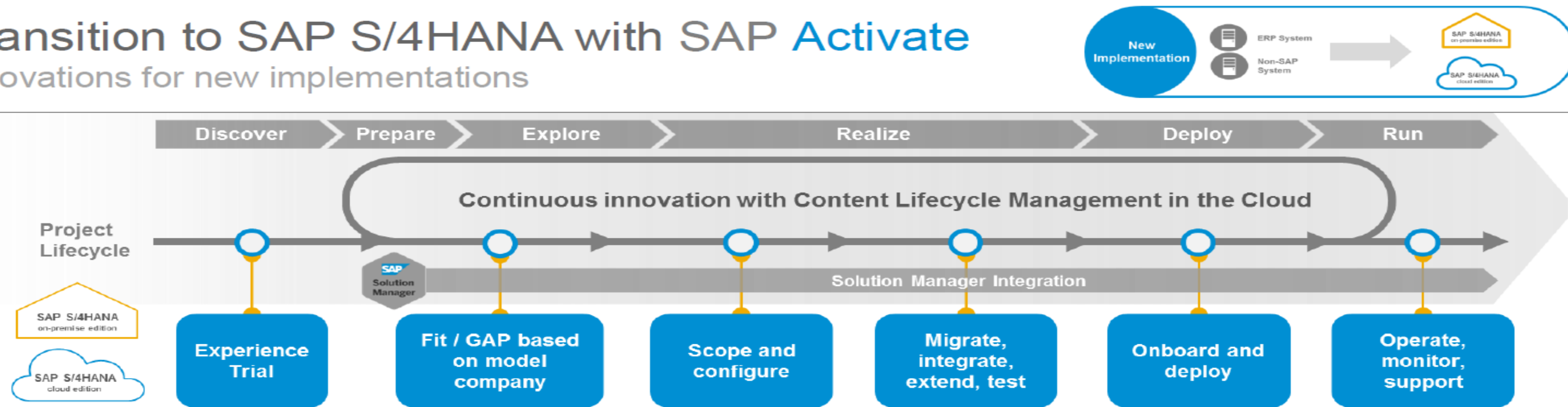
➢ **The Project is Live (Go-live)**

➢ **Cut-over Activities will be Done On Live By Business Users And Consultants**

➢ **Business Users Will Start Using The System in The Their Daily Business Process**

➢ **SAP Consultants Will Support Daily Business Process And Solve issues**

SAP®

SAP Activate Methodology

Transition to SAP S/4HANA with SAP Activate
Innovations for new implementations

New Implementation — ERP System, Non-SAP System → SAP S/4HANA on-premise edition / SAP S/4HANA cloud edition

| Discover | Prepare | Explore | Realize | Deploy | Run |

Continuous innovation with Content Lifecycle Management in the Cloud

Project Lifecycle

SAP Solution Manager

Solution Manager Integration

SAP S/4HANA on-premise edition

SAP S/4HANA cloud edition

- **Experience Trial**
- **Fit / GAP based on model company**
- **Scope and configure**
- **Migrate, integrate, extend, test**
- **Onboard and deploy**
- **Operate, monitor, support**

Innovations delivered with SAP Activate

- Pre-configured trial systems – role based self-led evaluation of SAP S/4HANA utilizing SAP Fiori
- Start your project with ready-to-run business and integration processes delivered with the product
- Fit/Gap analysis instead of costly blueprinting with business process documentation delivered through Solution Manager 7.2
- Pre-defined data mappings for data migration
- SAP Fiori based learning application with role-based learning content
- SAP Solution Manager as delivery infrastructure
- Content Lifecycle Management for cloud deployments using self-service and expert configuration tools

Difference Between SAP Activate And ASAP

➤ **ASAP Use Waterfall But S/4hana Use Agile Methodology**

➤ **Discover**

SAP New Features

➤ **Realize**

▪ **SAP Business Users Can Participate And Give Feedback With Regular Standup Meeting**

▪ **Scrummaster (Mini Project Manager) Can Monitor The Progress Using Sprints**

➤ **Deploy**

Pre-delivered Master Data And Transactional Data Templates Are Available

SAP MM Consultant Tasks

- *Project Start ------ Implementation（ Collecting Data Configuration Integration Key Users Training*

- *After Delivering Project And Taking UAT (Users Accept Test)---- Support*

SAP MM Consultant Tasks in Detail

- *Responsible For MM Master Data*

- *Responsible For MM Confiuration Integration*

- *Responsible For MM Key Users Supporting*

- *Involve To Improvement SAP System According To Customer Request*

The Important Customers To SAP MM Consultant

- ## Supply Chain Departments

 1- Stock Controller Or Material Planner Or Material Controller Dept

2- Production Planning Dept

3- contracting Dept

4- Purchasing Dept

5- Warehouses Dept

INTRODUCTION SAP SPECIFIC

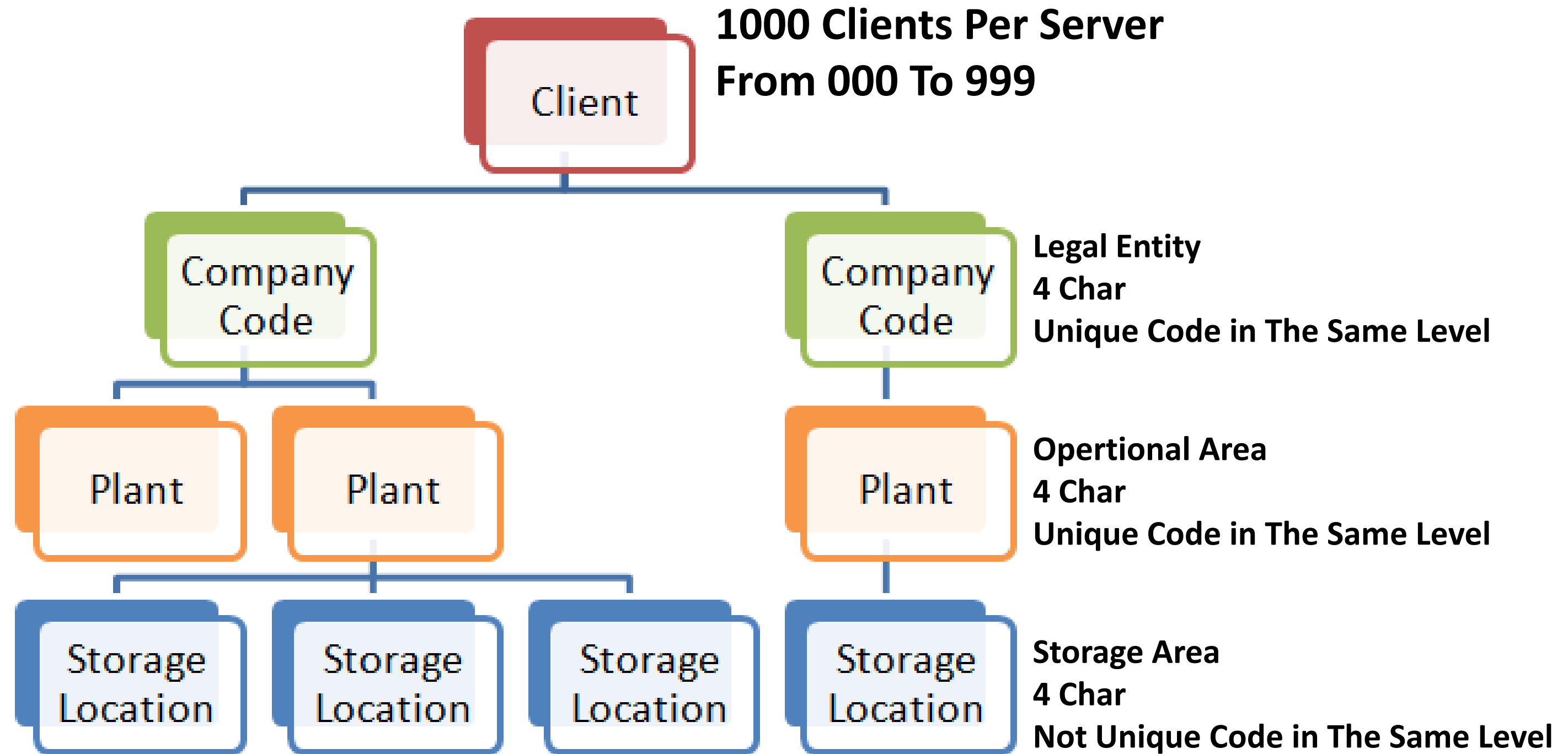## The Needs of the SAP MM Consultant to Carry out his Duties To Start New Project

- ORG Structure Or Enterprise Structure

- Master Data

- Business Process

SAP Enterprise Structure
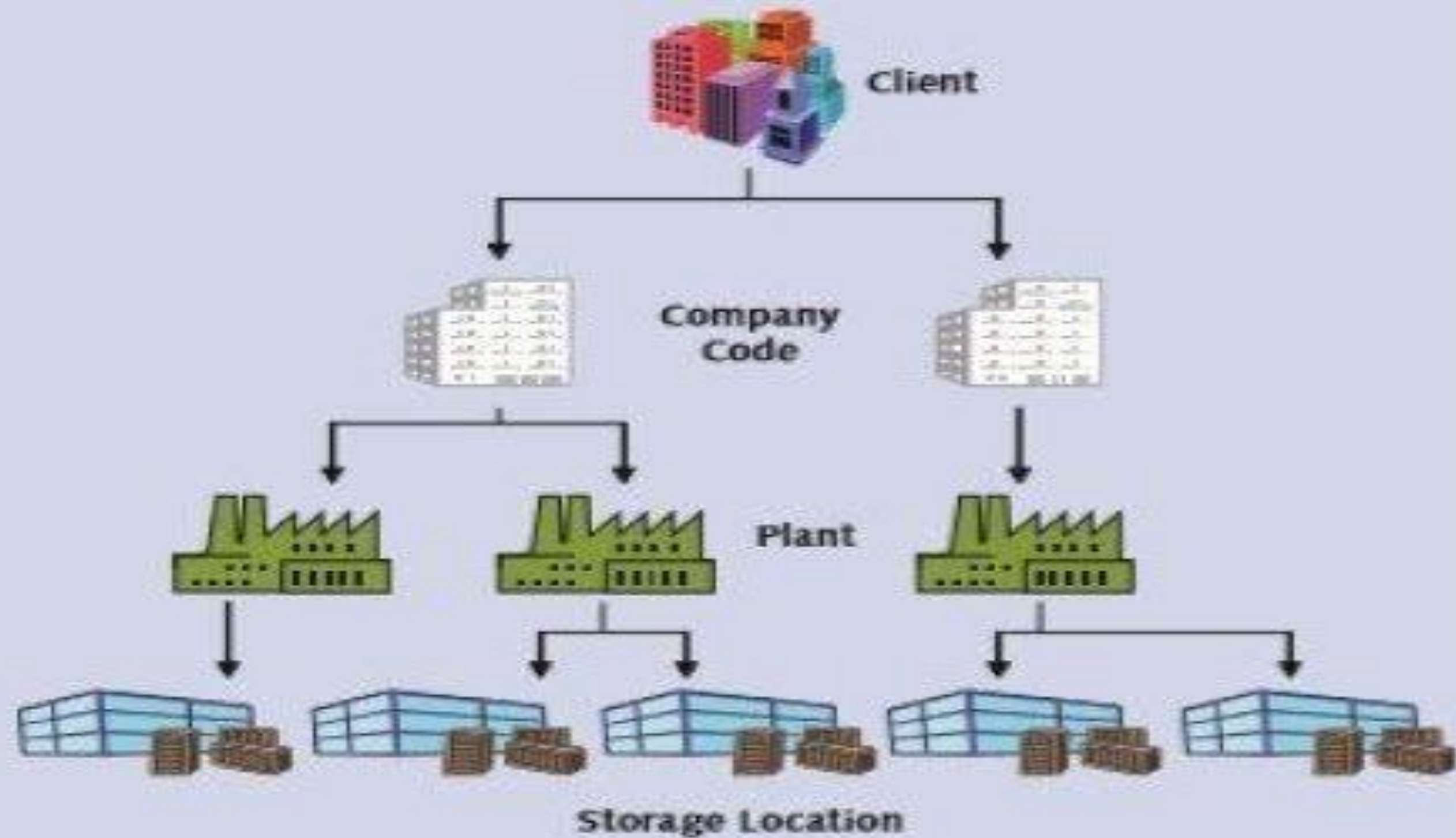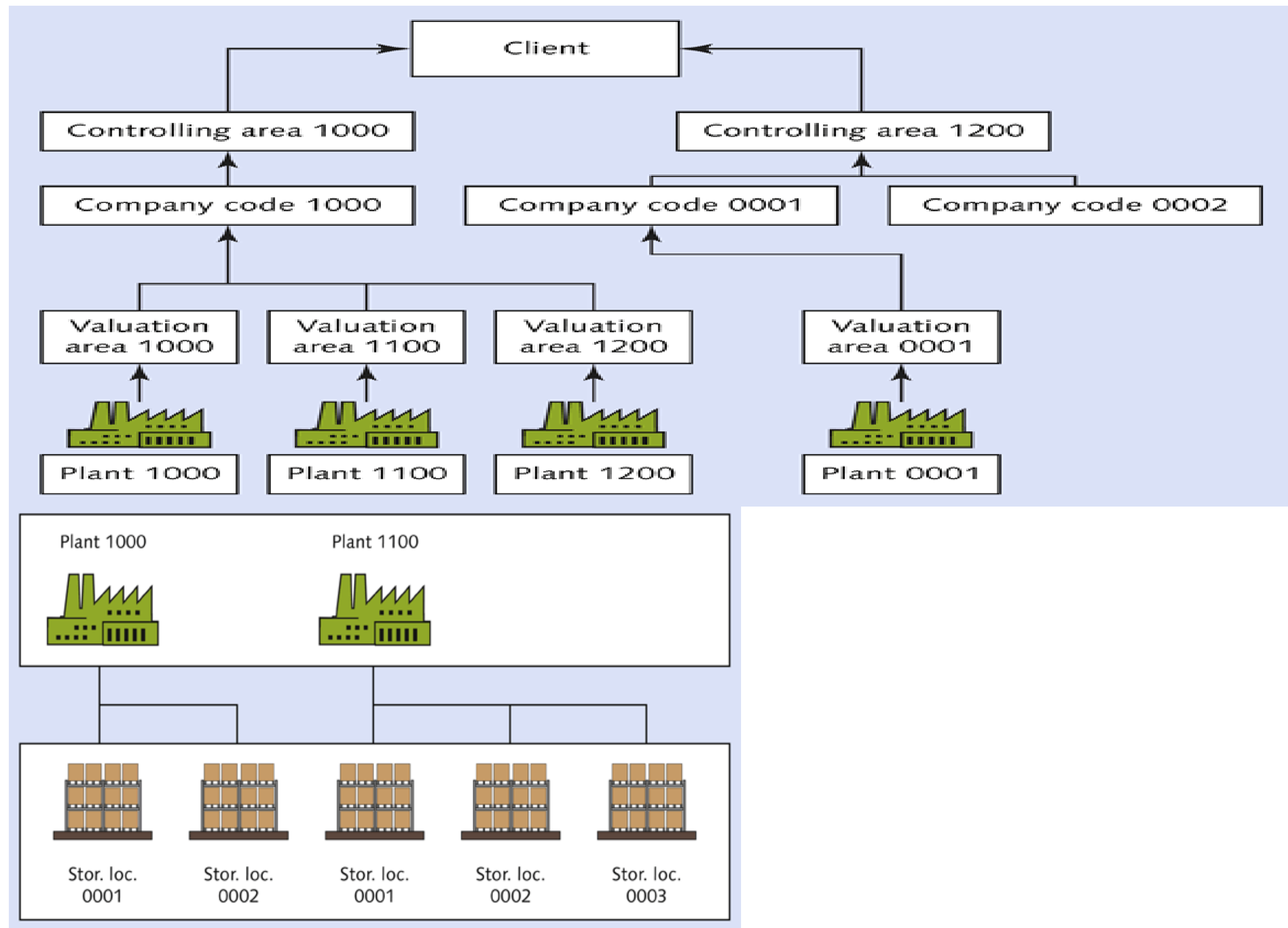

1000 Clients Per Server From 000 To 999

Client

Company Code
— **Legal Entity**
4 Char
Unique Code in The Same Level

Company Code

Plant
— **Opertional Area**
4 Char
Unique Code in The Same Level

Plant

Plant

Storage Location
— **Storage Area**
4 Char
Not Unique Code in The Same Level

Storage Location

Storage Location

Storage Location
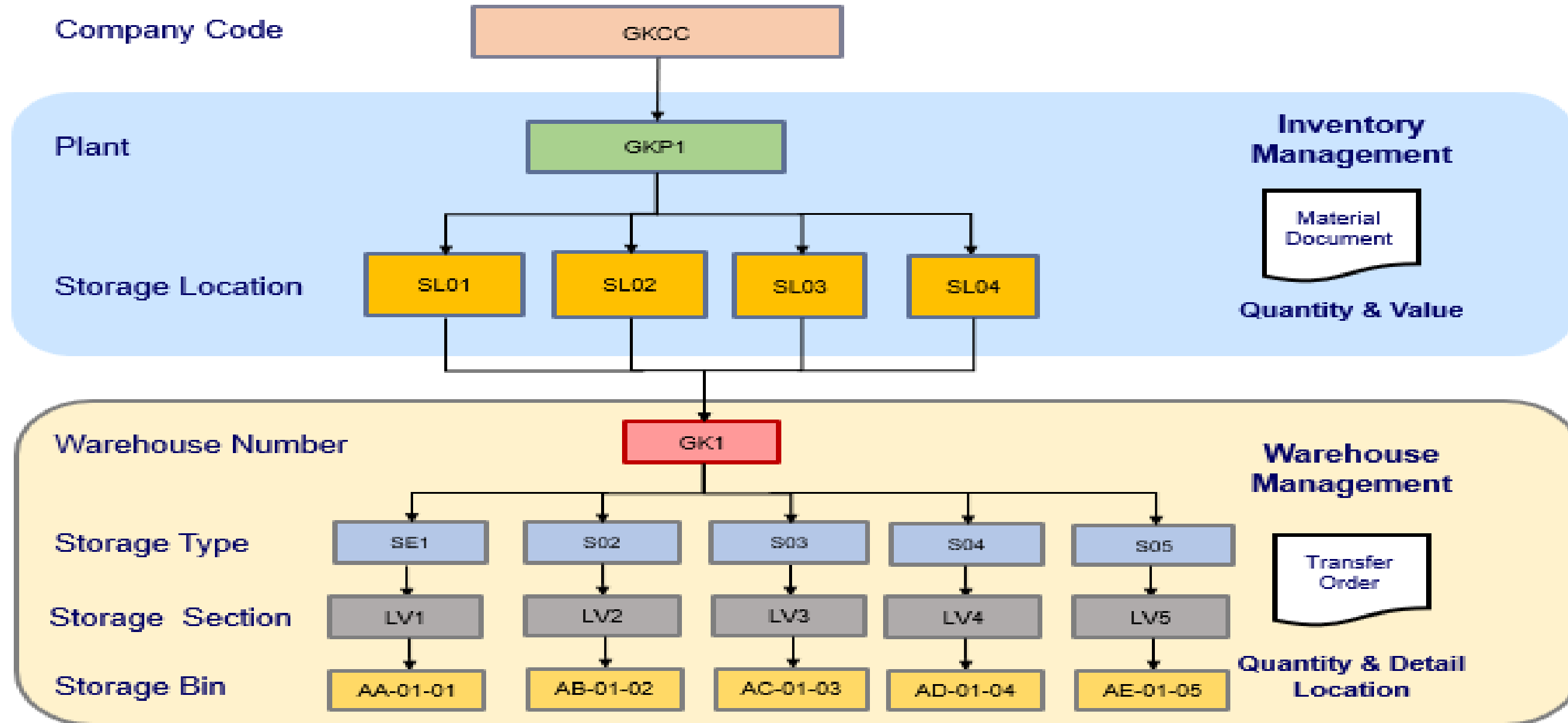
SAP Enterprise Structure

SAP Enterprise Structure
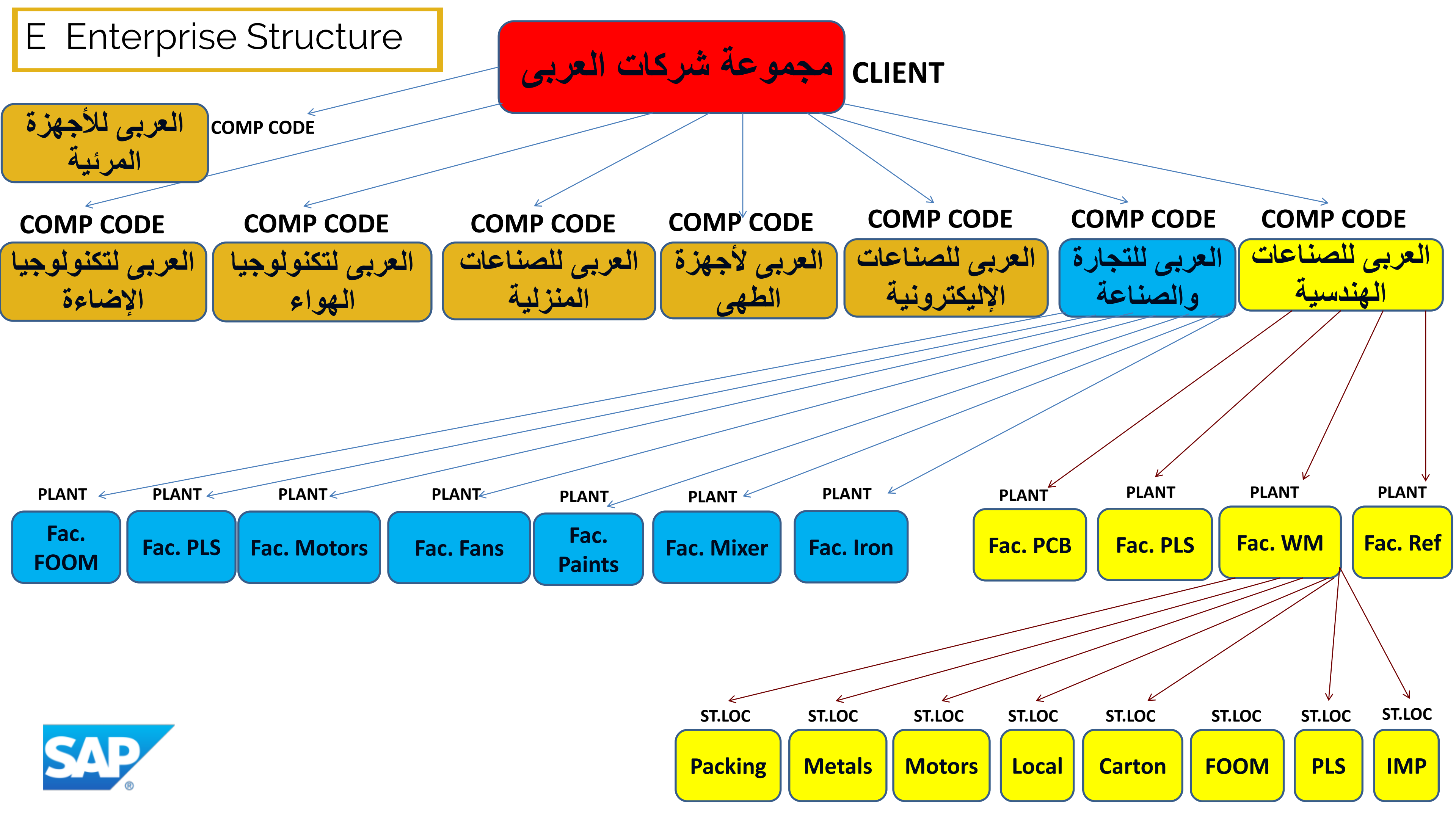
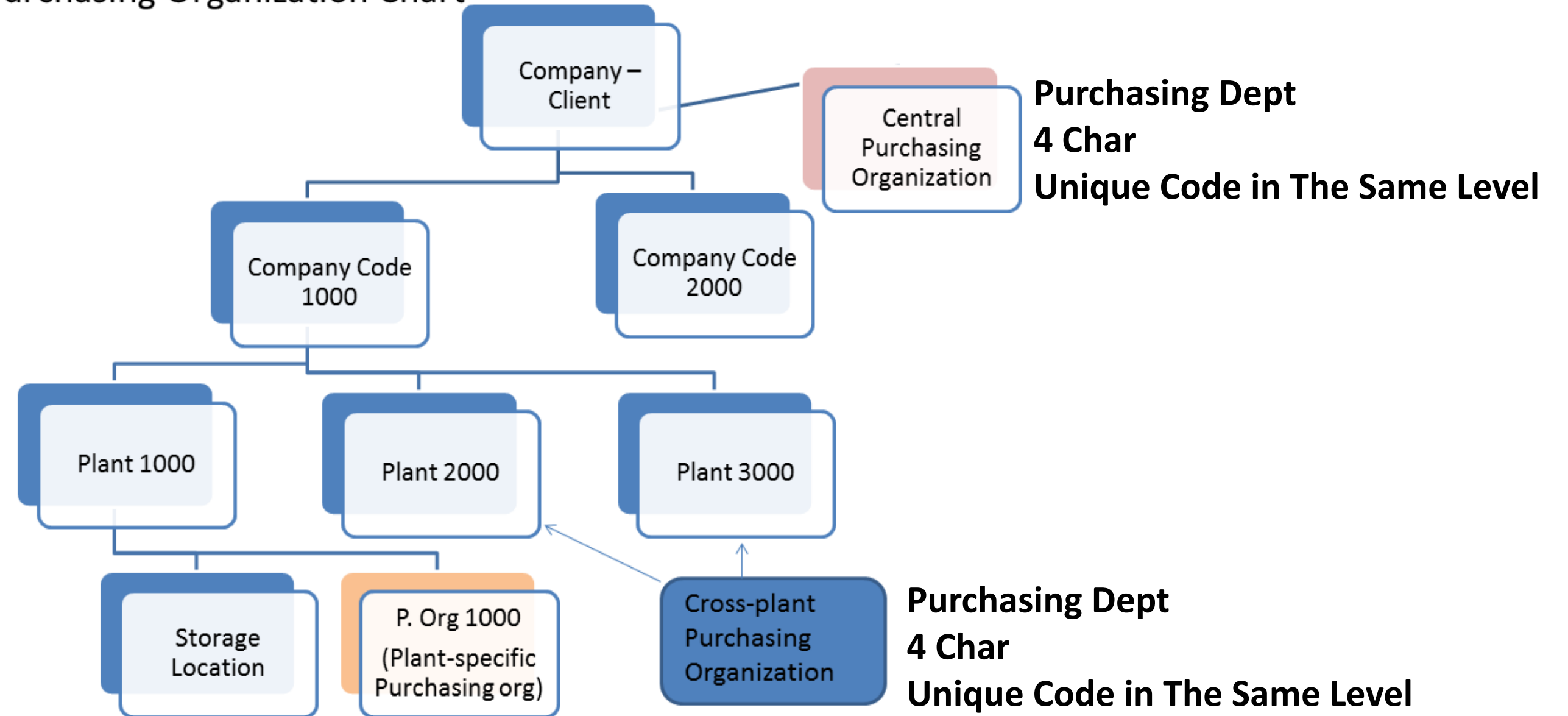# SAP Enterprise Structure

SAP Enterprise Structure

Purchasing Organization Chart

Company – Client

Central Purchasing Organization

Purchasing Dept
4 Char
Unique Code in The Same Level

Company Code 1000

Company Code 2000

Plant 1000

Plant 2000

Plant 3000

Storage Location

P. Org 1000 (Plant-specific Purchasing org)

Cross-plant Purchasing Organization

Purchasing Dept
4 Char
Unique Code in The Same Level

Data types in SAP

- *Configurational data*

- *Transactional data*

- *Master data*