OLA

Object Lifecycle Analysis

LYNGSO

IRS Consolidation

Introduction to OLA

Product, Scope and Purpose of OLA

Tools used for OLA

Participants Roles

IRS Consolidated Report

OLA

Object Lifecycle Analysis

ΛLYNGSO

Strategic Initiative Lifecycle

ΛLYNGSO

Business Process
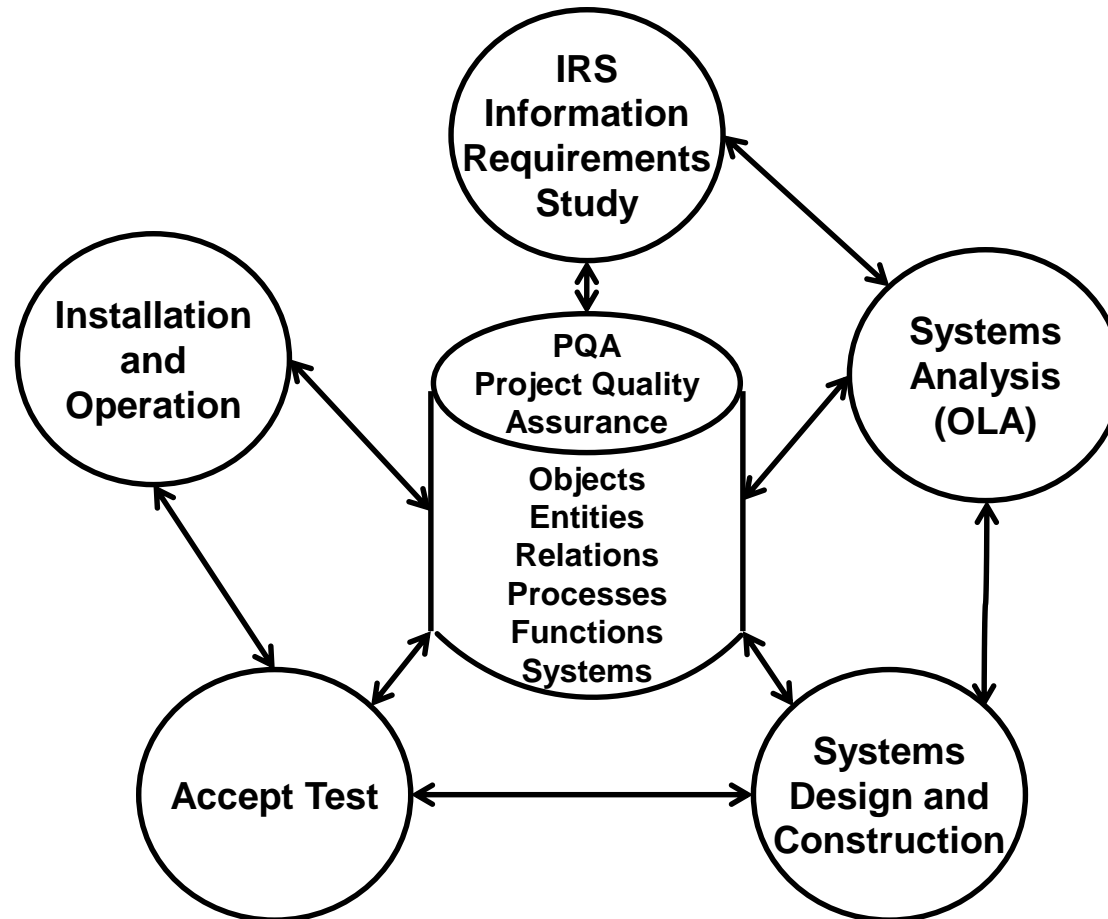
```
Man          }              ┌──────────────┐              }  PRODUCT
Materials                   │              │
Energy                      │   Process    │                 Demanded by
Equipment                   │              │
Information                 ├──────────────┤              }  CLIENT
                            │  Activities  │
                            ├──────────────┤
                            │  Procedures  │
                            └──────────────┘
```
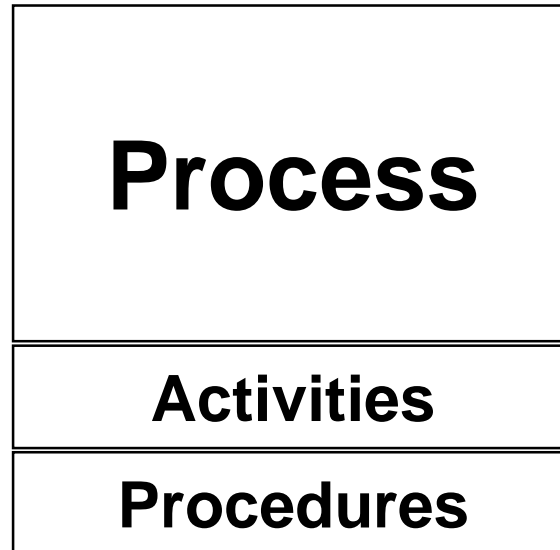
**Visibility
Well-defined Product
Multiple Solutions**

Information System

System

System Module (Function)

Enterprise

ACCOUNT

ECONOMY

CONSUMPTION

Owner

BOOKING

SCHEDULE   PLAN

Process

Authority
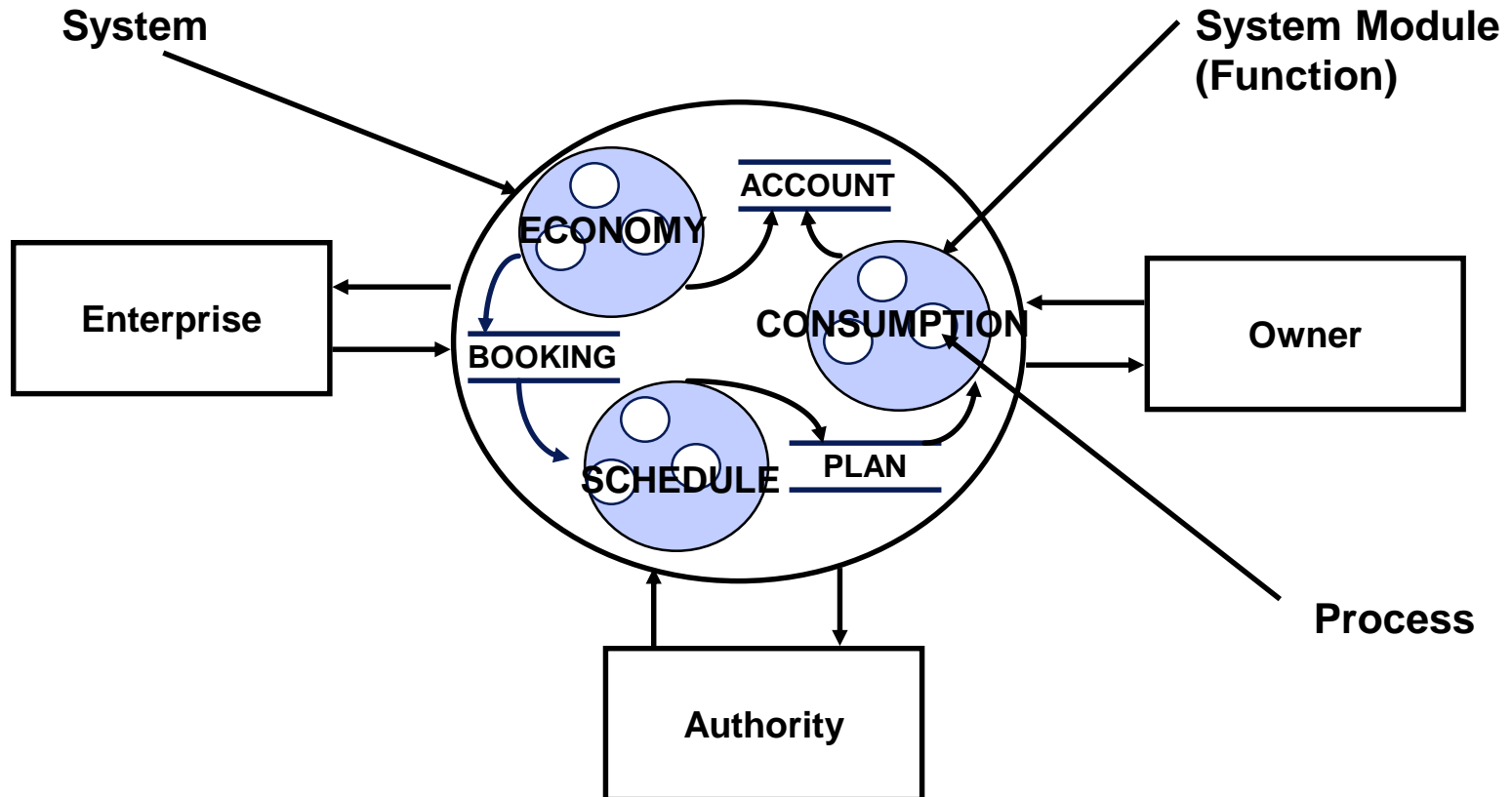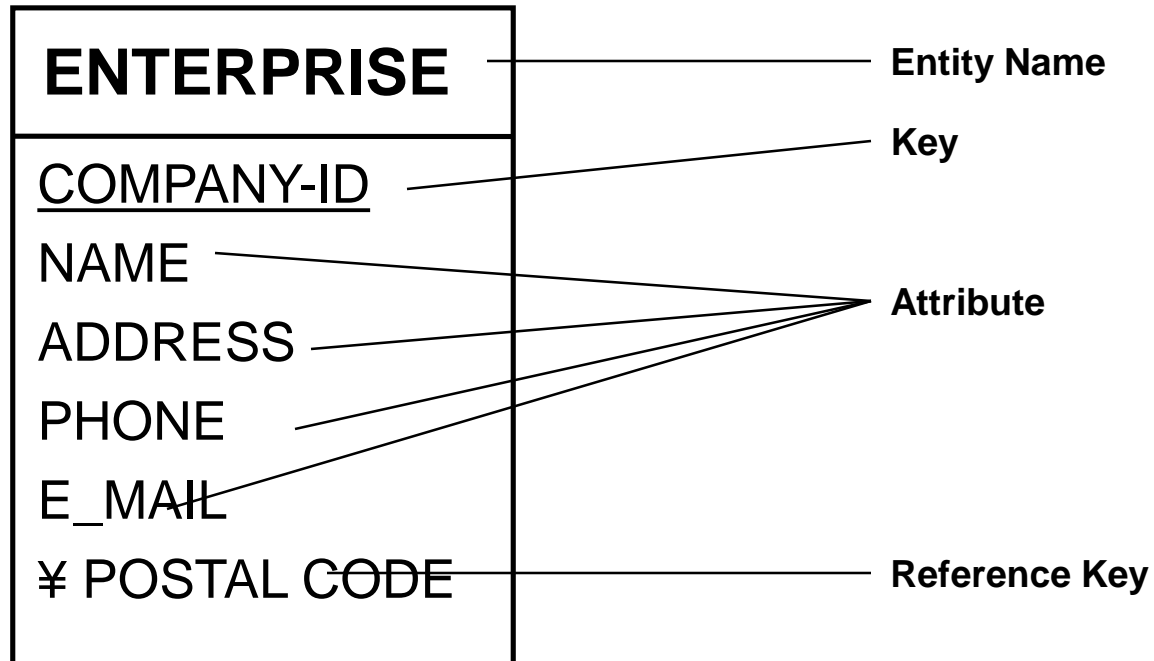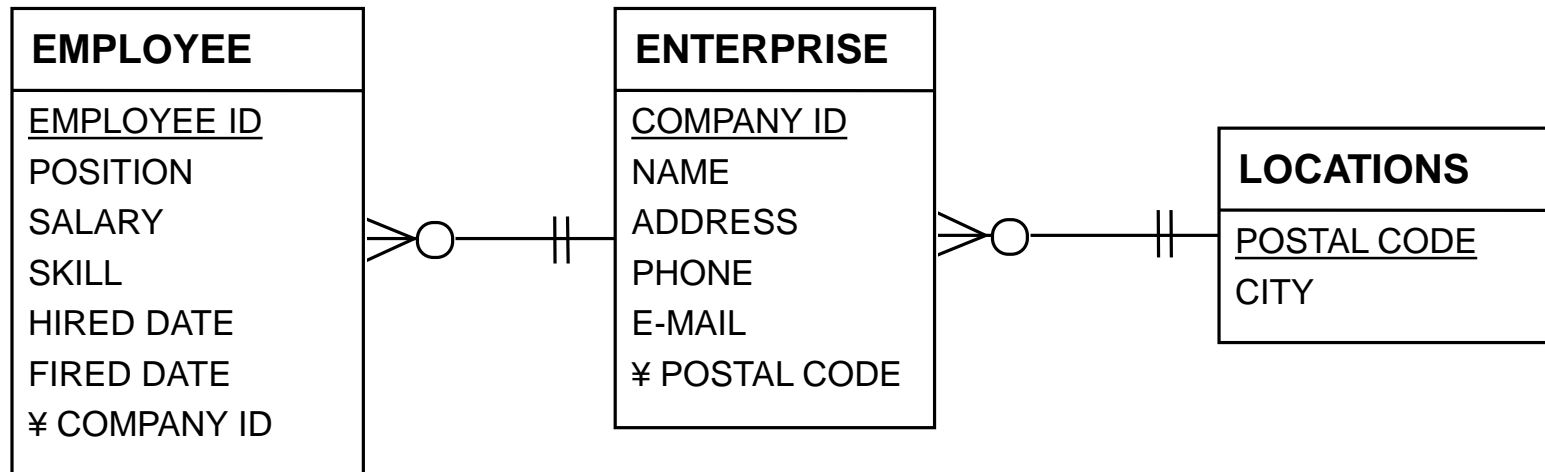
Object/Entity

- **A collection of related data**

- **Represents the Structure Items and the Actions about which the Organization wishes to Store Information**

- **May be interpreted as a Data Warehouse component**

- **Same Attributes for each object/entity Item**

- **Unique Object/Entity Item ID (Key Attributes)**

- **Relates to other objects/entities by Reference Key Attributes that are keys in these objects/entities**

Object/Entity

```
┌─────────────────────┐
│  ENTERPRISE         │──────────────── Entity Name
├─────────────────────┤
│  COMPANY-ID         │─────────────── Key
│                     │
│  NAME               │
│                     │
│  ADDRESS            │────────── Attribute
│                     │
│  PHONE              │
│                     │
│  E_MAIL             │
│                     │
│  ¥ POSTAL CODE      │─────────── Reference Key
└─────────────────────┘
```

OLA

Object Lifecycle Analysis

Entity Relationship Diagram

ALYNGSO

EMPLOYEE
<u>EMPLOYEE ID</u>
POSITION
SALARY
SKILL
HIRED DATE
FIRED DATE
¥ COMPANY ID

ENTERPRISE
<u>COMPANY ID</u>
NAME
ADDRESS
PHONE
E-MAIL
¥ POSTAL CODE

LOCATIONS
<u>POSTAL CODE</u>
CITY

Object Types

- **Action Object (Transactions)**
  - **Describes an Action and its Result (Time Stamped – e.g. Purchase Order, Settlement, Payment, Corporate Action)**
- **Structure Object (Static Data)**
  - **Describes the Environment Handling in support of the Actions (e.g. Enterprise, Security, Person). May have Time Stamped Attributes (List items) such as Price, Value. May have other states (On/Off).**

OLA

Object Lifecycle Analysis

ALYNGSO

OLA Matrix

> Done on Flipchart:
> - ID
> - Attributes
> - Key Attributes
> - Reference Key Attributes

ORDER

OBJECT / PROCESS	Create Order	Attach Agent	Select Exchange
CLIENT	R	R	
ORDER	C	R U	R U
AGENT	R	R	R
SECURITY	R		R

Object/Entity Description

- **Identification**
  - **ID**
  - **Description**
  - **Capacity**
- **Attributes**
  - **Name**
  - **Key?**
  - **Reference Key?**
  - **Definition (Value List in Vocabulary)**

Process Description

Done on Paper:
•Draft on Workshop
•Result after Workshop
by Solution Designer

■ **Name**

- **Definition**

    Product, Scope, Purpose/Value

- **Procedure Elements**

    Decisions and Actions

- **Object Usage**

    By Object

- **Integration**

    Processes

    External Systems

- **Supported Functions**

The Organization

- **IRS Reference group Role/Responsibility**
  - **Identify and Describe Business Processes**
  - **Define Business Process Object Usage and Product/Result**
  - **Review Notes and Conclusions made by Solution Designer and facilitator (After the Workshop)**

The Organization

- **Facilitator and Solution Designer Role/Responsibility**
  - **Proactive Listening**
  - **Understand Business Processes**
  - **Support Reference group**
    - **Start Role Games**
    - **Ask Questions**
  - **Note all Conclusions and Decisions about:**
    - **Process Functions**
    - **Process Object Usage**

The Organization

- **Facilitator/Solution Designer Role/Responsibility**
  - **Document Objects:**
    - **Definition**
    - **Keys**
    - **Attributes**
    - **Reference Keys**
  - **Maintain Vocabulary**

OLA
Object Lifecycle Analysis

LYNGSO

Products

Documented by Facilitator and Solution Designers

- **System Components**
  - **Vocabulary**
  - **Process Definitions**
  - **Process Notes**
  - **Object Descriptions**
  - **Entity Relationship Diagrams**
  - **OLA Matrix**
  - **System Module Definition/Notes**

OLA

Object Lifecycle Analysis

LYNGSO

IRS Consolidated Report

Documented by
IRS Reference group
Facilitator/IRS Workgroup
Solution Designers

- **Summary**
- **Objective**
- **Method Used**
- **Situation Description/Pre-conditions**
- **Business Areas - needed Process and Information Improvements**
- **Required Solutions (Information systems) and their Benefits**
- **Cost Benefit Analysis**
- **Conclusion**
- **Attachments**