



CO457
Business Modelling

Module Week 3



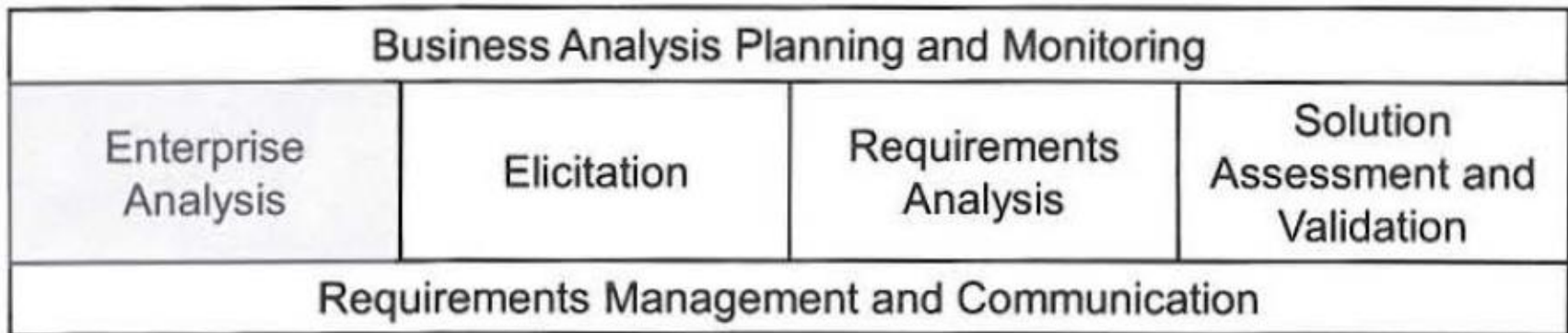
Mapping the Business Landscape

Enterprise and Business Architectures

Enterprise Analysis

- Enterprise analysis involves **describing the scope of potential projects**
- Project scope is **captured at the business-requirements level of detail**

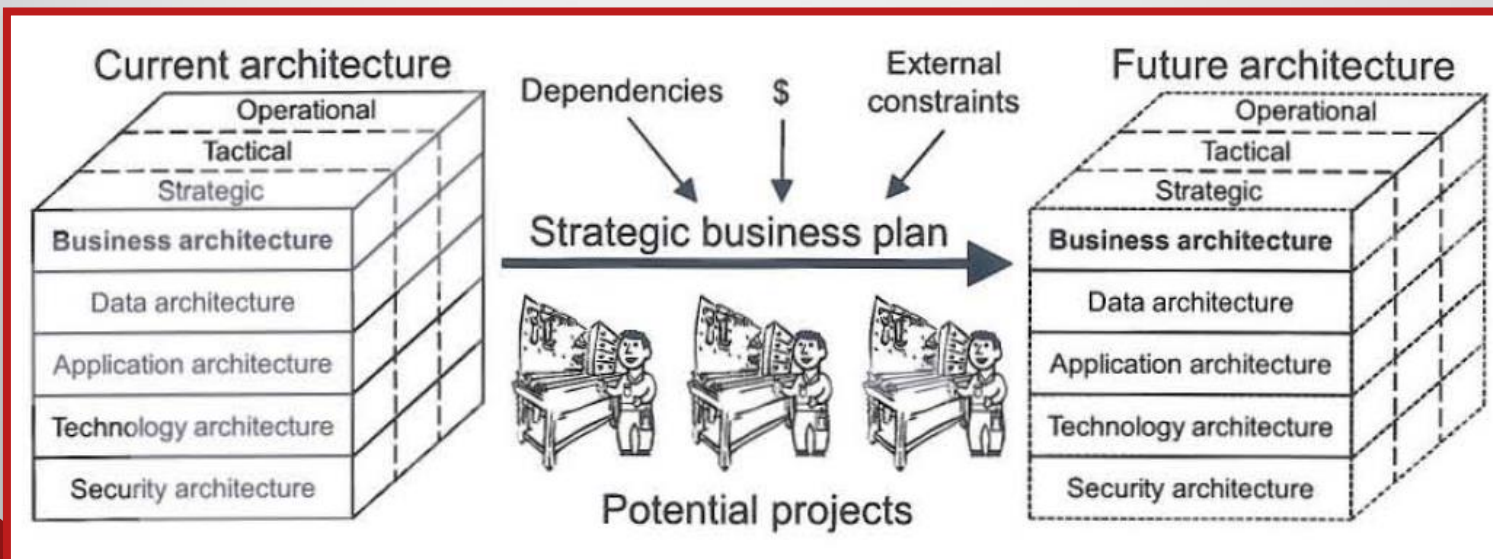
BABOK® Knowledge Areas



Underlying Competencies

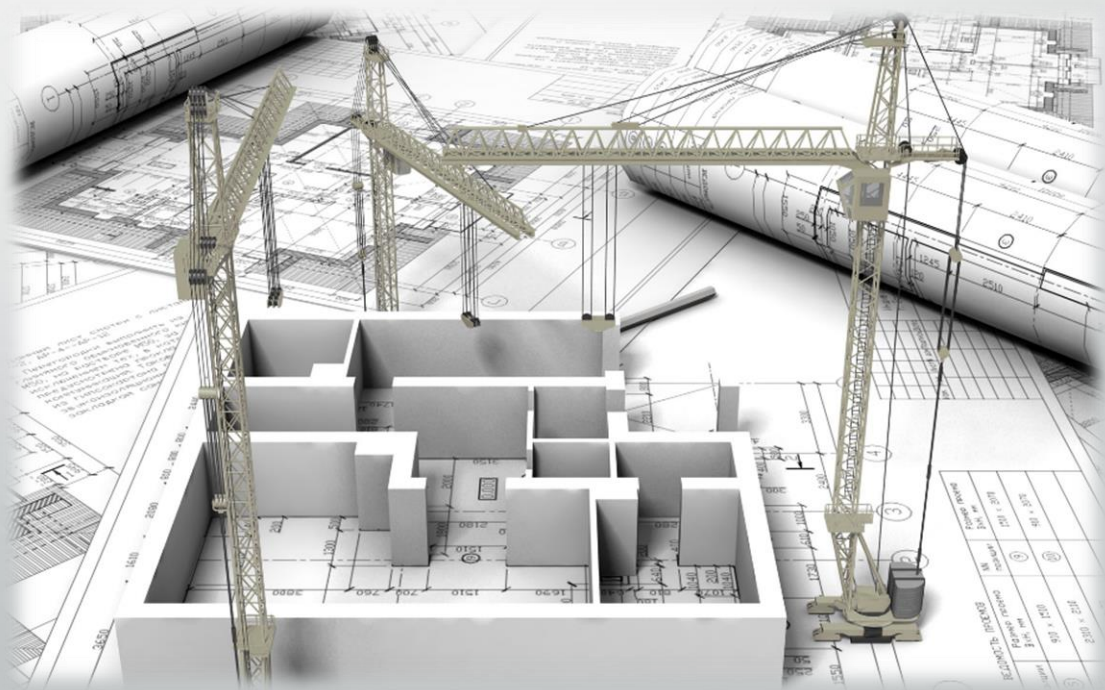
Enterprise Architecture

- Enterprise analysis uses and modifies the Enterprise Architecture
- A strategic business plan
 - **Helps the organisation migrate:**
 - From the **current "as is" architecture**
 - To the **future "to be" architecture**



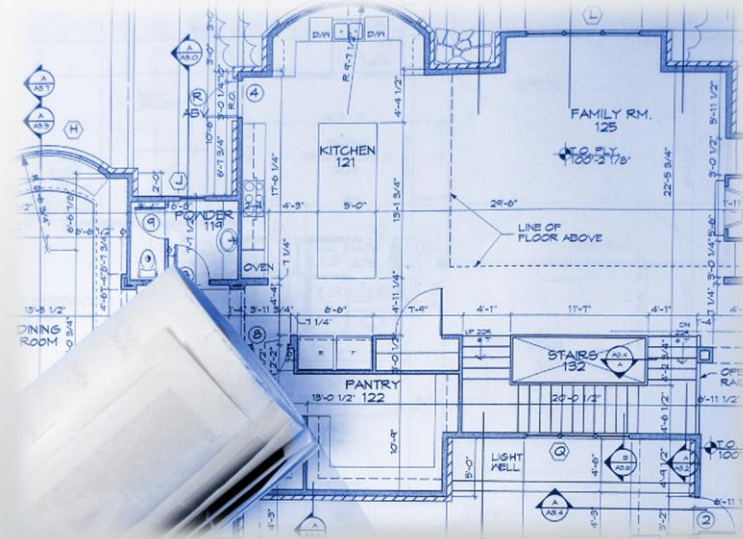
Enterprise Architecture

- An architectural view of a system (Business and IT)
 - **'The fundamental organisation of a system, embodied in its components, their relationships to each other and the environment, and the principles governing its design and evolution'**



Enterprise Architecture

- An Enterprise Architecture consists of
 - Business architecture
 - **Business goals, structure, and processes**
 - **Data architecture**
 - Used to support the business
 - Application architecture
 - Used to **process the data**
 - Technology architecture
 - Used to **deploy the applications**
 - Security architecture (optional)



Business Architecture: Definition

- The business architecture:
 - **An interrelated set of documents, models, and diagrams, describing the business in terms of its vision, mission, strategy, rules, policies, functions, procedures, processes, organisations, assets, competencies and locations, that together comprise the business as a system for delivery of value**
- The business architecture provides the **context for more detailed business models**



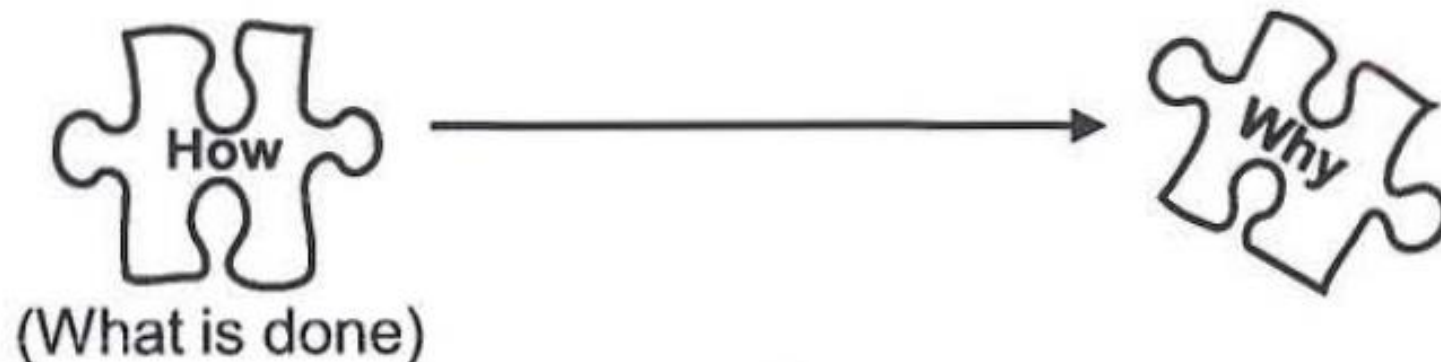
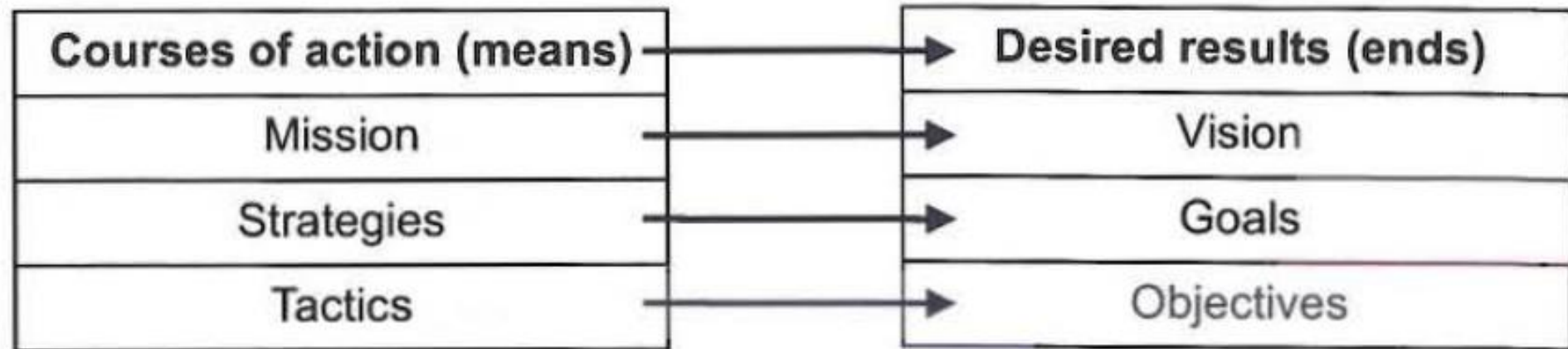
Business Architecture: Multiple Views

- A business architecture contains multiple views
 - **Motivational** view
 - Vision, goals, objectives
 - **Organisational** structure
 - **Functional/Process** views
 - Domain view
 - **Human Resources** view
 - Remuneration, incentives, hiring, promotion, culture, competencies
 - External view
 - Customers, marketplace, competition, regulations, suppliers
 - Geographical view
 - Locations and facilities



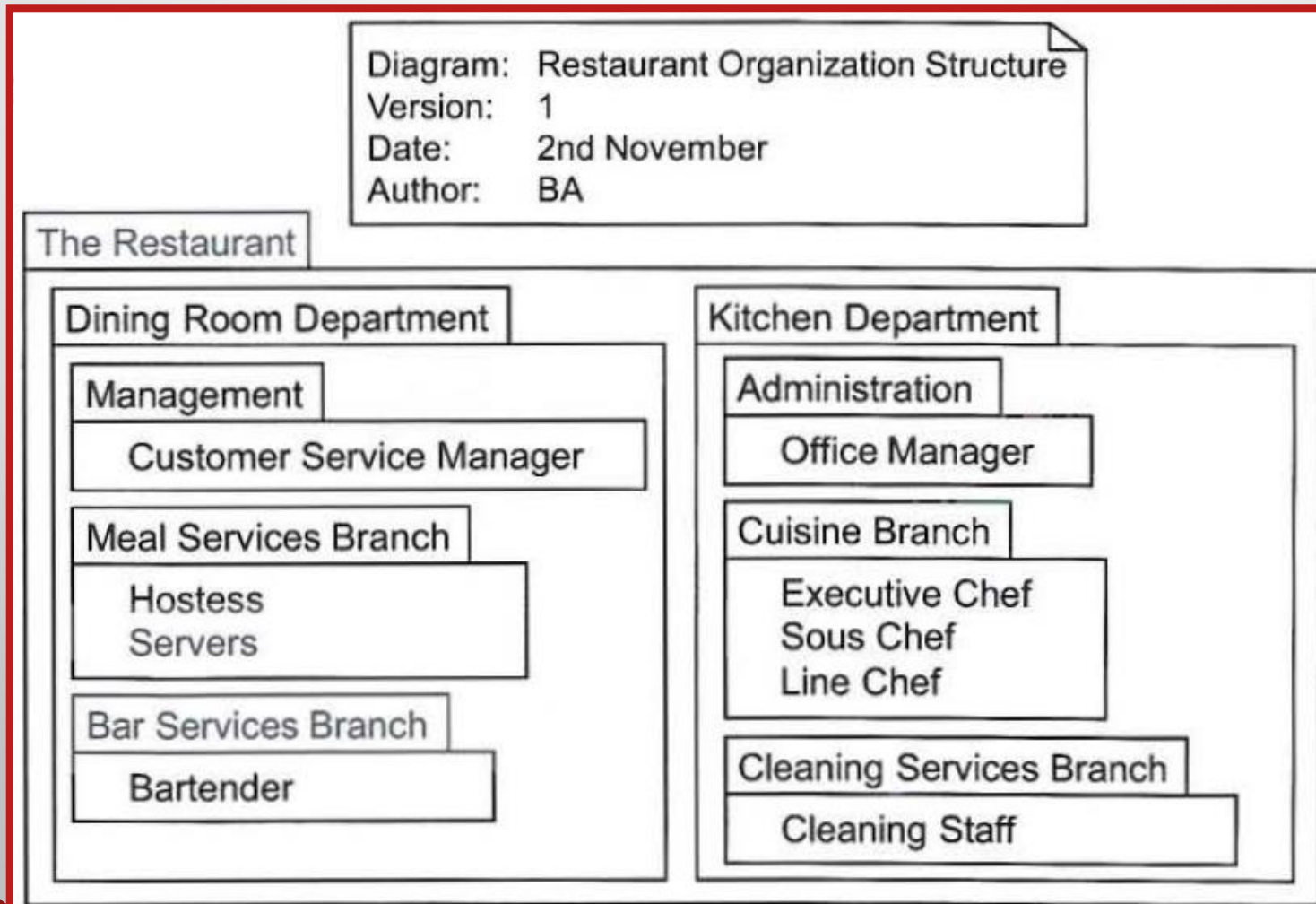
Business Architecture: Motivational View

- **The business goals and means for achieving them**
 - Captured at the vision-and-goals level of detail in the architecture



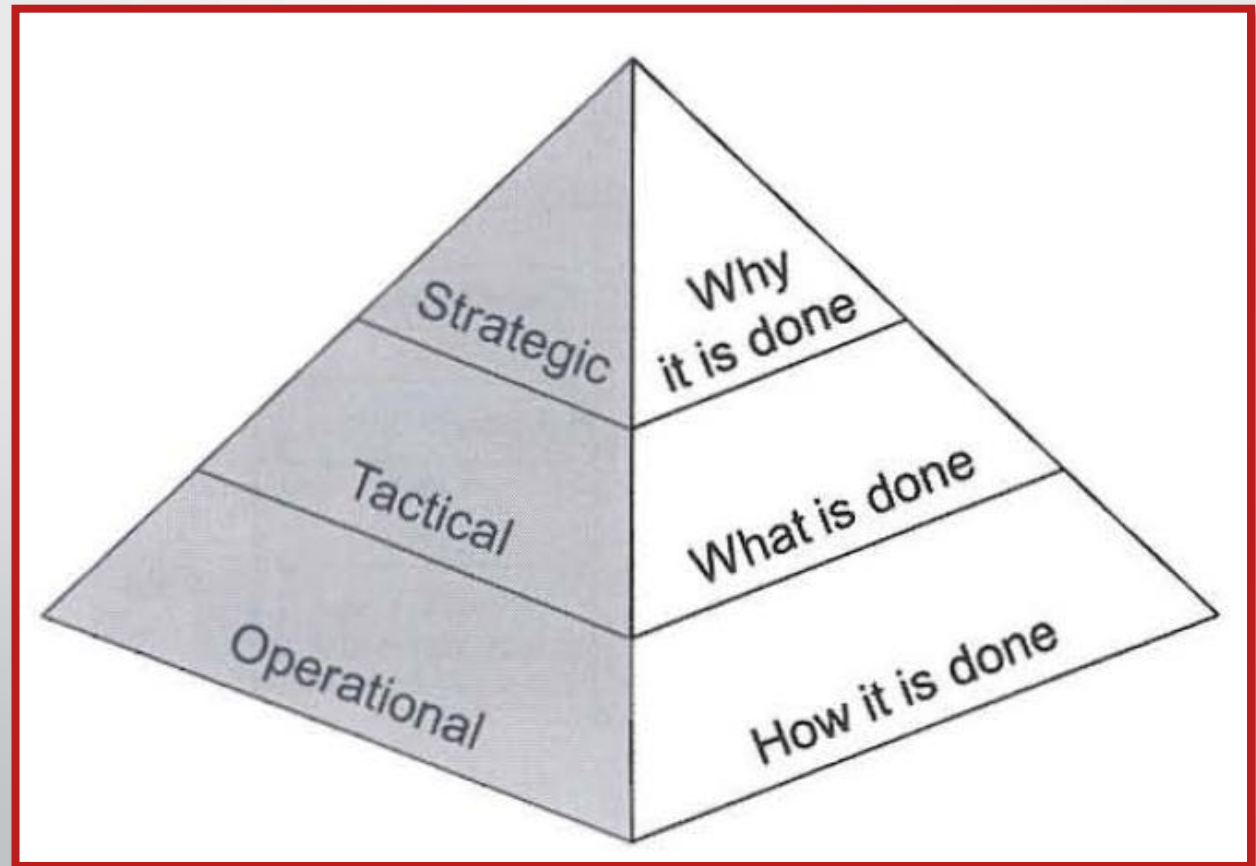
Business Architecture: An Organisational Structure

- **An organisation is composed of organisational units**

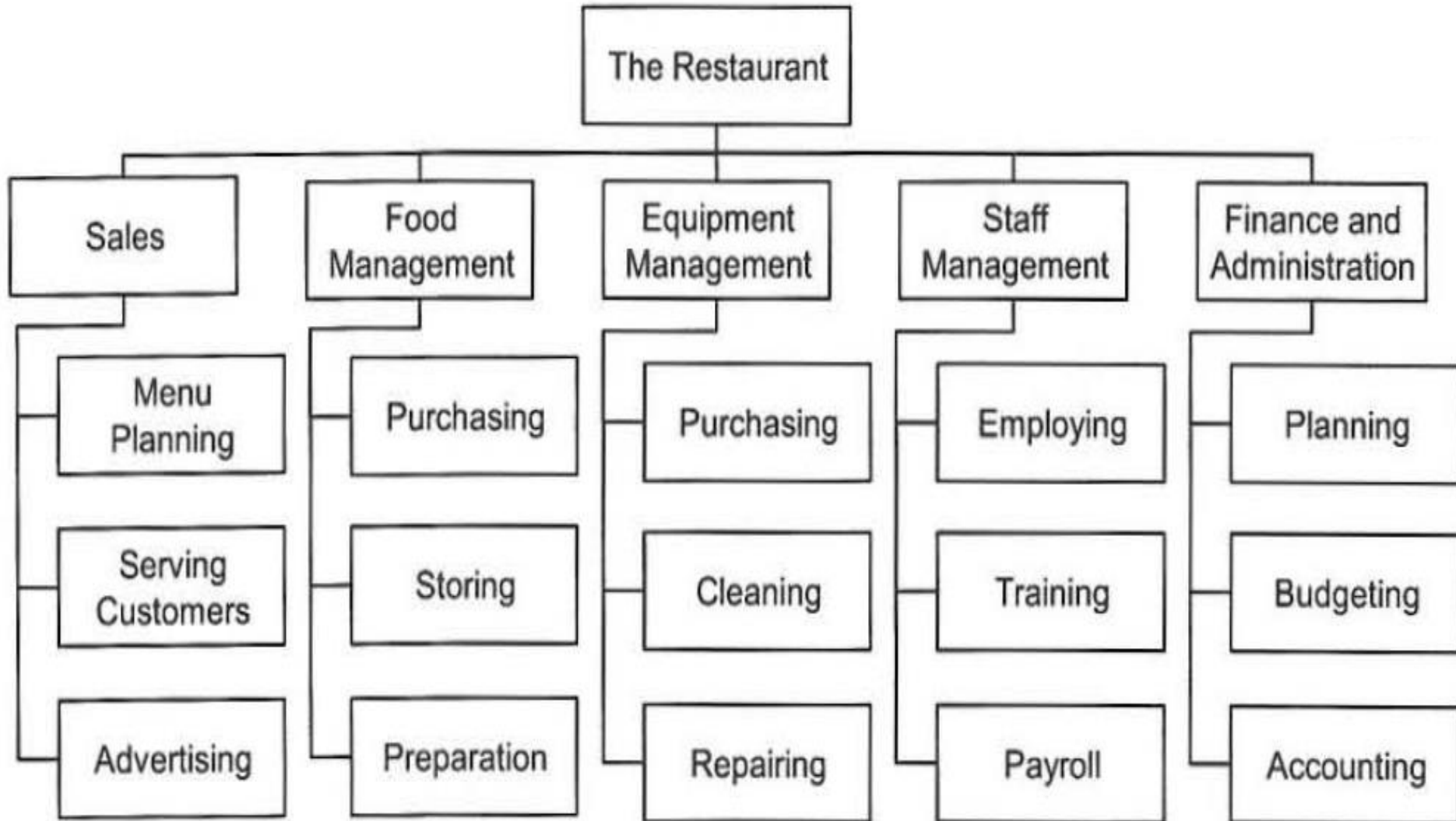


Business Architecture: Functional/Process Views

- Functional/Process views are captured at the **strategic and tactical levels of detail** in the architecture

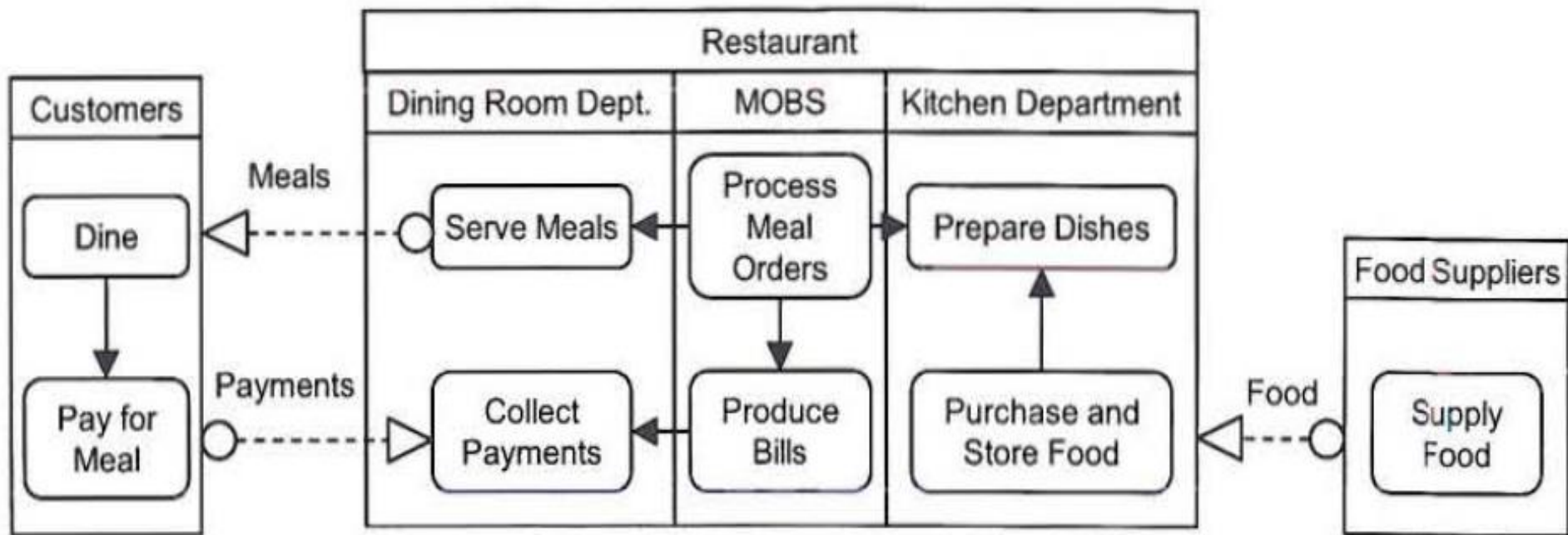


Business Architecture: A Pure Functional View



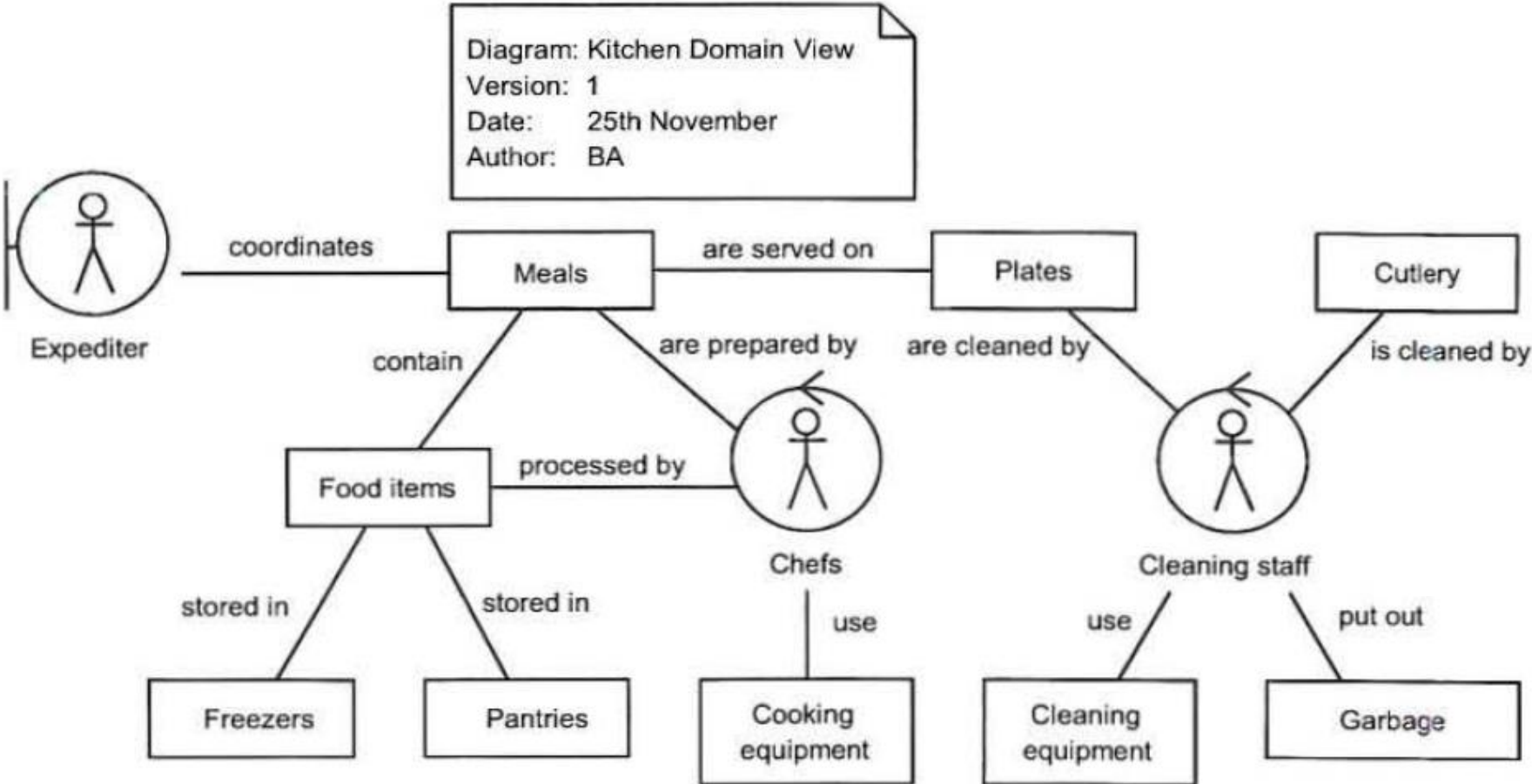
Business Architecture: A Process View

- A Process View captures
 - **Organisation's value chains**
 - How the business processes fit together, are managed and measured
 - Also known as a **cross-functional map**



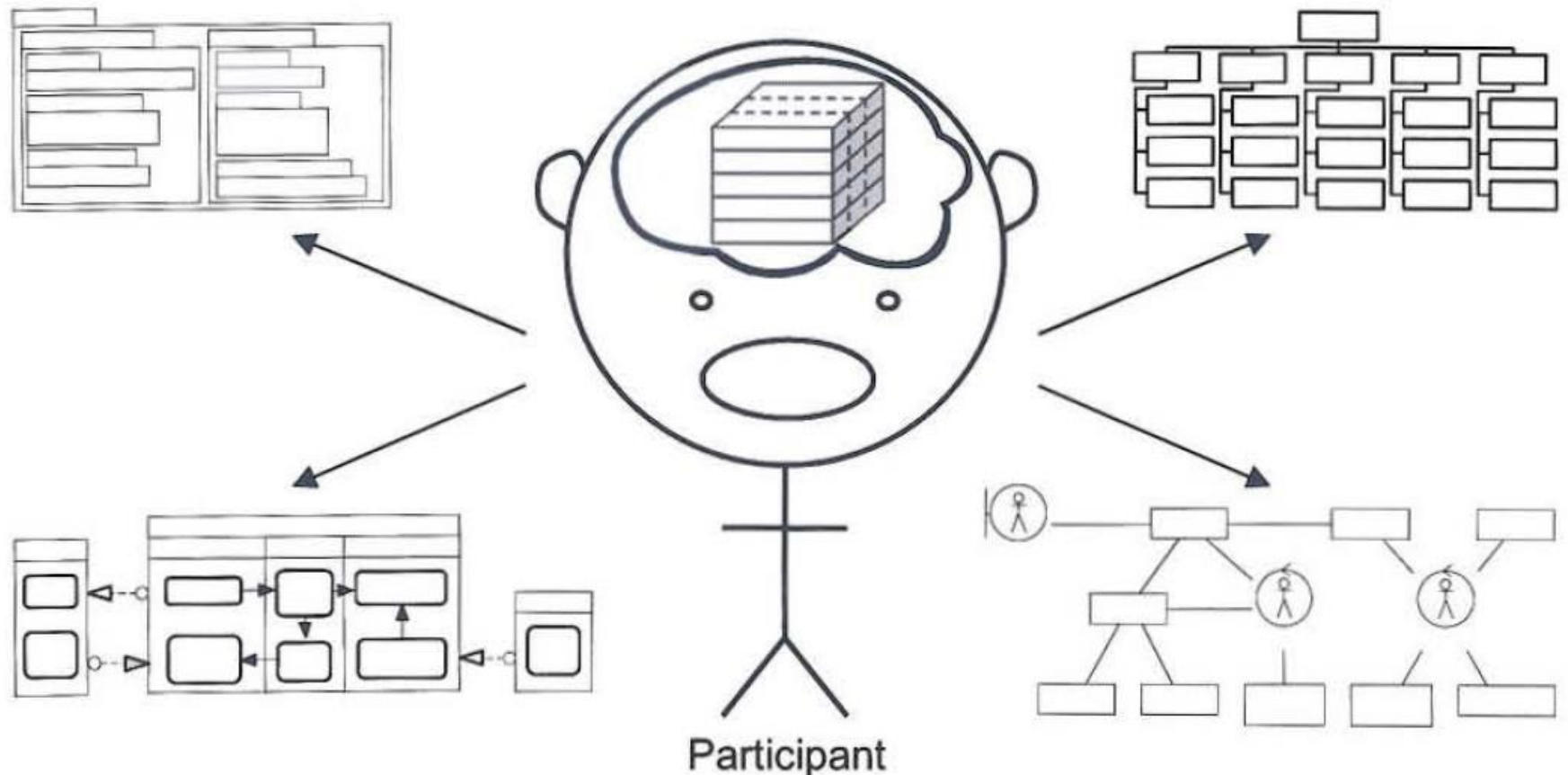
Business Architecture: A Domain View

- **UML class diagram** of things in the kitchen and their associations



How Do We Model the Business Architecture?

- We start by **gathering business requirements** in a requirements workshop



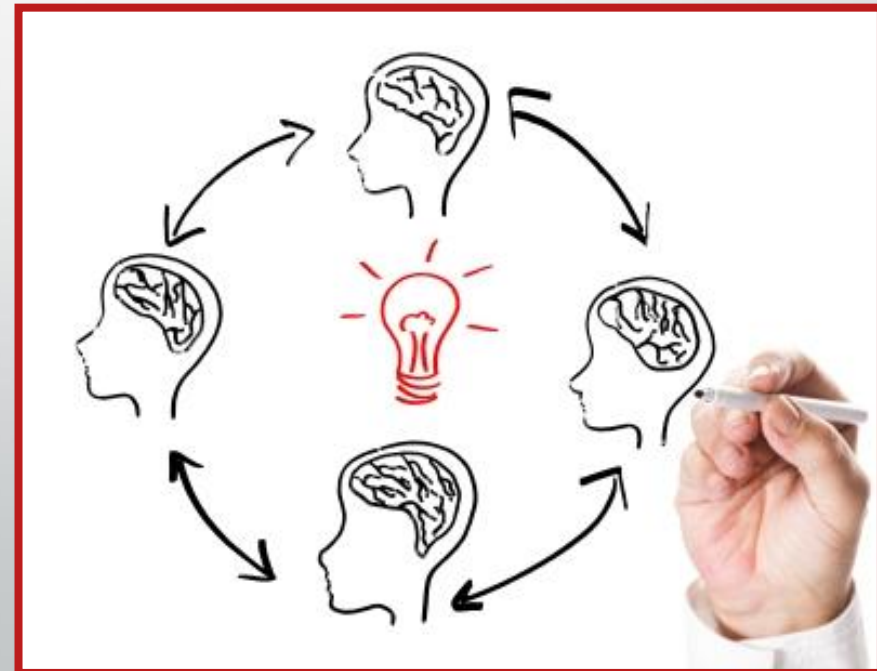
Requirements Workshops

- Holding **a requirements workshop is a best practice in elicitation**
- Obtains a large quantity of **high-quality information, very rapidly**
- Also known as:
 - Joint Application Development (JAD)
 - Requirements Discovery Session (RDS)
 - Joint Requirements Planning Session (JRPS)
- **The goal is to reach an agreement on the requirements**



Requirements Workshops: Roles

- Moderated by a **facilitator**
- Documented by a **scribe**
- **Participants provide the knowledge**
- Observers come to **listen and learn**



Requirements Workshops: Preparation

- Select a facilitator and a scribe
- **Define the goal and scope of the workshop**
- Identify participants
 - **Cross-sectional group of stake holders**
 - Have a thorough knowledge of the business
 - **Able to make decisions**



Requirements Workshops: Preparation

- Decide on **observers**
- Review **existing documentation**
- Organise a time and place
- Develop the agenda
- Distribute an information package to participants and observers



Requirements Workshops: Agenda

- Introduction by project manager or sponsor
 - **Explain the workshop context, scope, and goal**
- Overview of the process by the facilitator
 - Describe the **rules of conduct**
 - Clarify the possible **problem-resolution strategies**
- Discussion among the participants
 - The majority of the workshop
 - Moderated by the facilitator
 - Captured by the scribe



Requirements Workshops: Agenda

- Conclusion by the facilitator
 - **Review the agreed-upon requirements**
 - **Itemise requirements deferred for later elicitation**
- Inform participants of the next steps
 - The **production and review of the models**



Requirements Workshops: Rules of Conduct

- Follow the agenda
 - Facilitator maintains the **discussion in scope and on topic**
- Level playing field
 - Opinions are of equal value
 - No intimidation due to title
 - **Facilitator has no opinion**
- One speaker at a time
 - **No interruptions or side conversations**
 - **Silence is consensus**
 - If you don't speak up, you have agreed



Requirements Workshops: Rules of Conduct

- 100 percent participation
- Facilitator is the boss
 - **Makes sure everyone is heard**
- **Goal is to reach agreement**



Quick Quiz

- Requirements workshops are also known as:
 - Joint Application Development (JAD)
 - Requirements Discovery Session (RDS)
 - Joint Requirements Planning Session (JRPS)
 - All of the above
- A Strategic Business Plan is based on:
 - The current 'as is' architecture
 - The future 'to be' architecture
 - The current 'as is' and the future 'to be' architecture
 - None of the above



Quick Quiz

- Which is not contained in the Enterprise Architecture?
 - Business architecture
 - Environment architecture
 - Application architecture
 - Technology architecture
- A Business Architecture contains a:
 - Domain view
 - Motivation view
 - Organizational structure
 - All of the above





Modelling Resources

Business Modelling Standards

- Models from the Object Management Group (OMG)
 - **An international standards consortium**
 - Develops enterprise integration standards
- OMG standards:
 - **Unified Modelling Language (UML)**
 - **Use Case Diagram** for modelling Business Use Cases
 - **Class Diagram** for modelling Business Objects
 - UML business modelling profile

Business Modelling Standards

- OMG standards:
 - **Business Process Modelling Notation (BPMN)**
 - For process/workflow modelling
 - Semantics of Business Vocabulary and Business Rules (SBVR)
 - For business glossaries and business rules
 - Business Motivation Model
 - **UML Profile for Modelling Quality of Service (QoS) and Fault Tolerance**
 - Characteristics and Mechanisms Specification

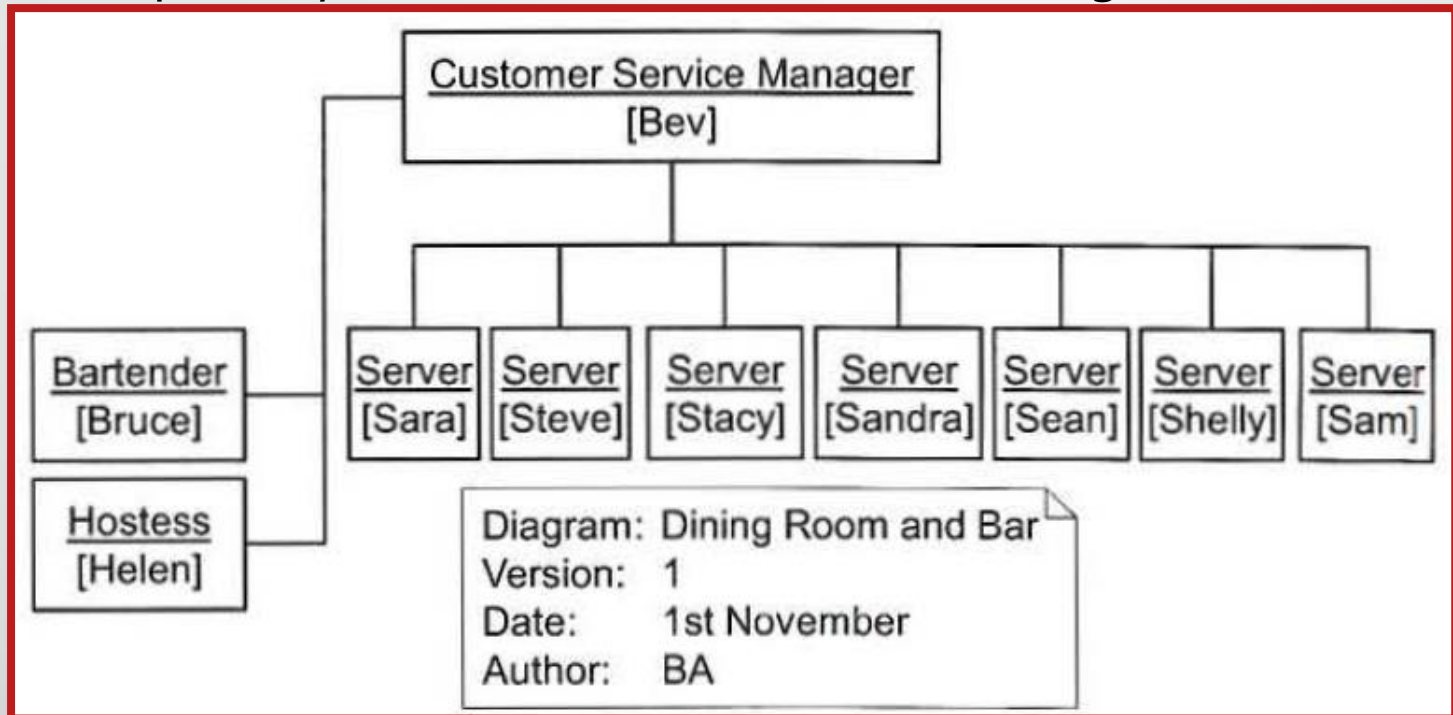
Additional Modelling Techniques

- **Organisation chart**
- Floor plan/blueprint
- Enterprise Architecture diagrams
- Decision tables
- **Functional decomposition**
- Matrices
- Prioritisation
- Supplementary requirements
 - Also known as **non-functional requirements**
 - Include **quality-of-service requirements**

Internet References

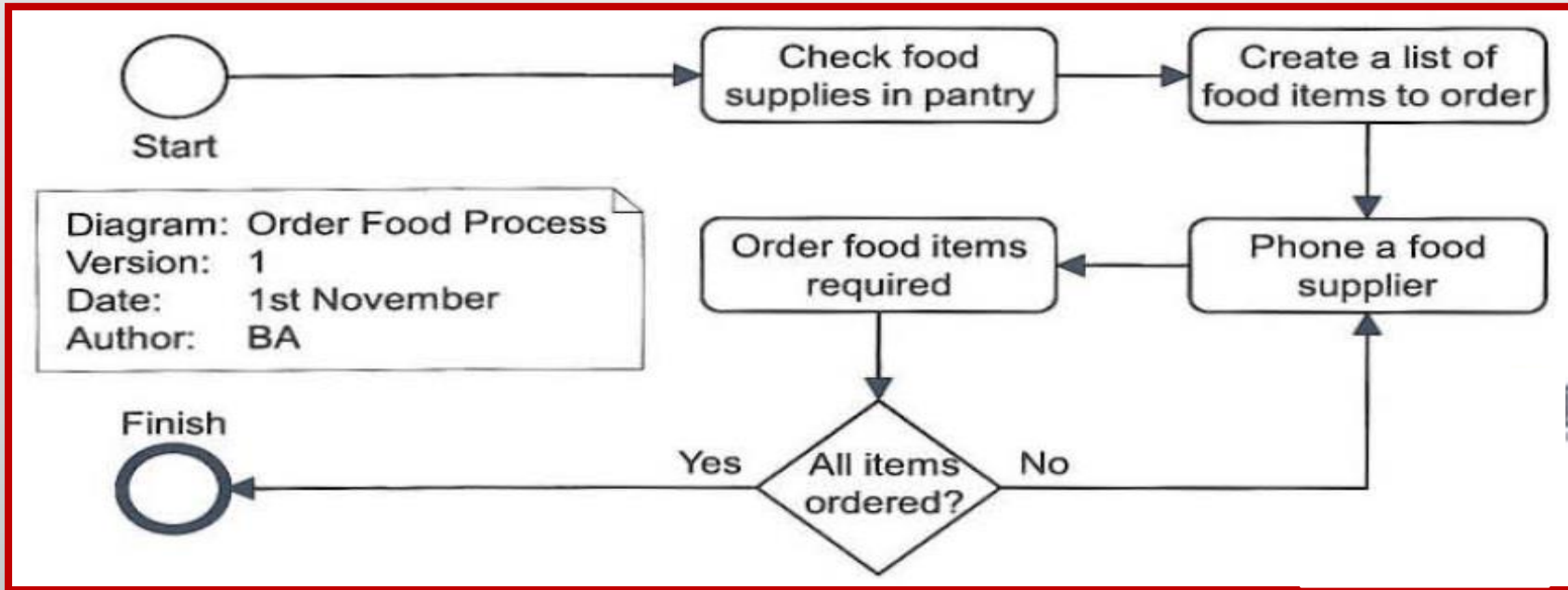
- Websites from which you can get more detailed modelling reference material:
 - International Institute of Business Analysis <http://www.theiiba.org>
 - The Object Management Group <http://www.omg.org>
 - **Unified Modelling Language** <http://www.uml.org>
 - Business Process Modelling and Notation <http://www.bpmn.org>
 - Business Process Trends <http://www.bptrends.com>
 - Business Rules Group <http://www.businessrulesgroup.org>

- What is the primary dimension modelled in this diagram?



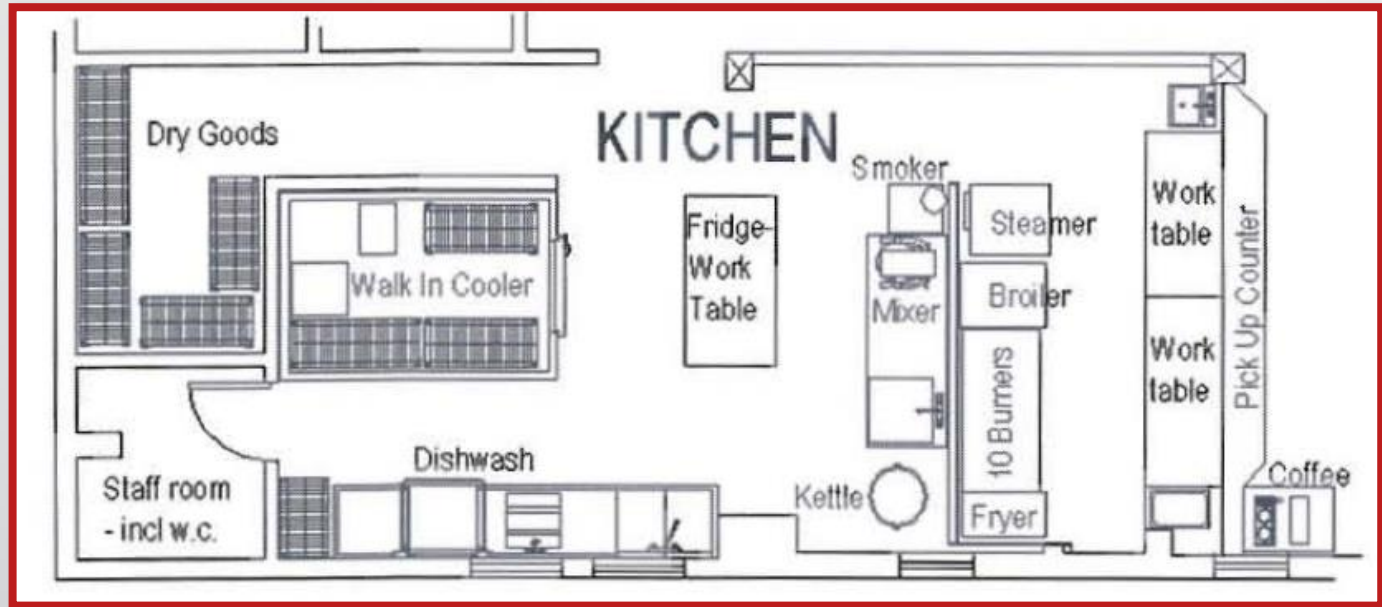
- Locations
- Motivation
- People
- Time

- What kind of relationship is shown in this diagram?



- Conceptual
- Sequence
- Reporting
- Aggregation

- What level of detail is shown in this diagram?



- Conceptual
- Logical
- Physical
- Aggregated