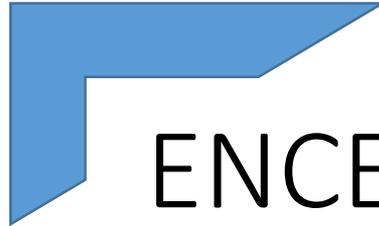


# Contracts, Specifications and Quantity Surveying



ENCE421:

## Project Stages



# Today's Presentation Outline

- Revisit previous lecture
- Project stages
- Influence of various parties on the project cost
- Technopark example (Designer selection)

# Revisit previous lecture

- ✓ Construction project and contracts parties
- ✓ Types of construction
- ✓ Technopark

# Project Stages

## 1. Project Definition and Concept

- Identify and analyze project objectives and constraints
- Provide a description of the project
- Prepare a feasibility study report
- If the project is feasible:
  - Identify a plan for the time and cost of delivering the project
  - Prepare the project's alternatives (concepts)

# Project Stages Cont'd

## 2. Design

- Preliminary design

- Final design

If the preliminary design has been approved by the owner. Then the second step will be preparation a full set of contract documents for the project that satisfy client requirements and project constraints.

# Project Stages Cont'd

Such as:

- Design drawings
- Specifications
- Bills of Quantities (B.O.Qs)
- Conditions of the contract
- Topographic survey

# Project Stages Cont'd

## 3. Bidding

Select a contractor to execute the job

## 4. Construction

- Site preparation
- Excavation & backfilling
- Structural work
- Electro-Mechanical works (electrical, HVAC, and plumbing)
- Finishes

# Project Stages Cont'd

5. Operation and maintenance

6. Demolition

# Influence of Various Parties on the Project Cost

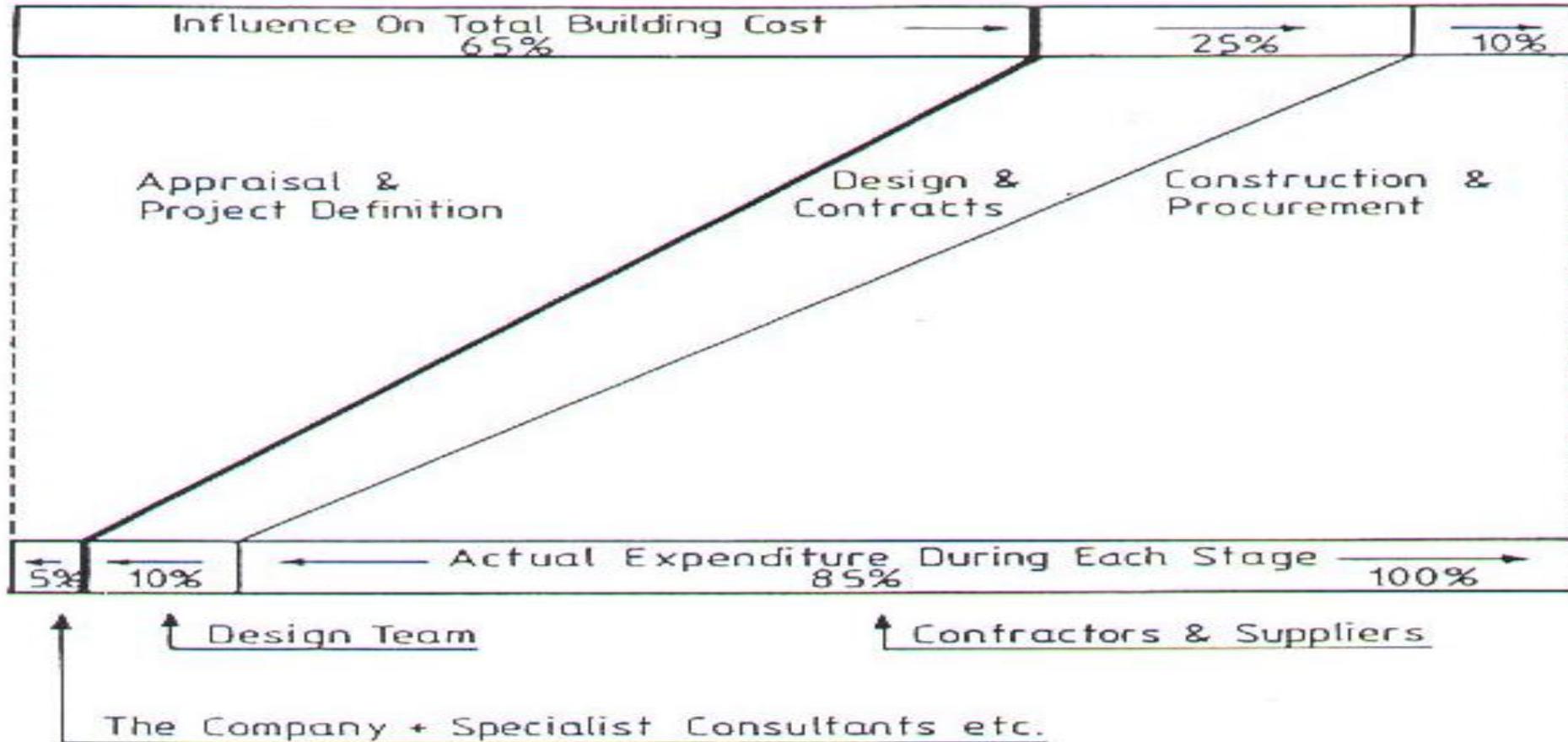
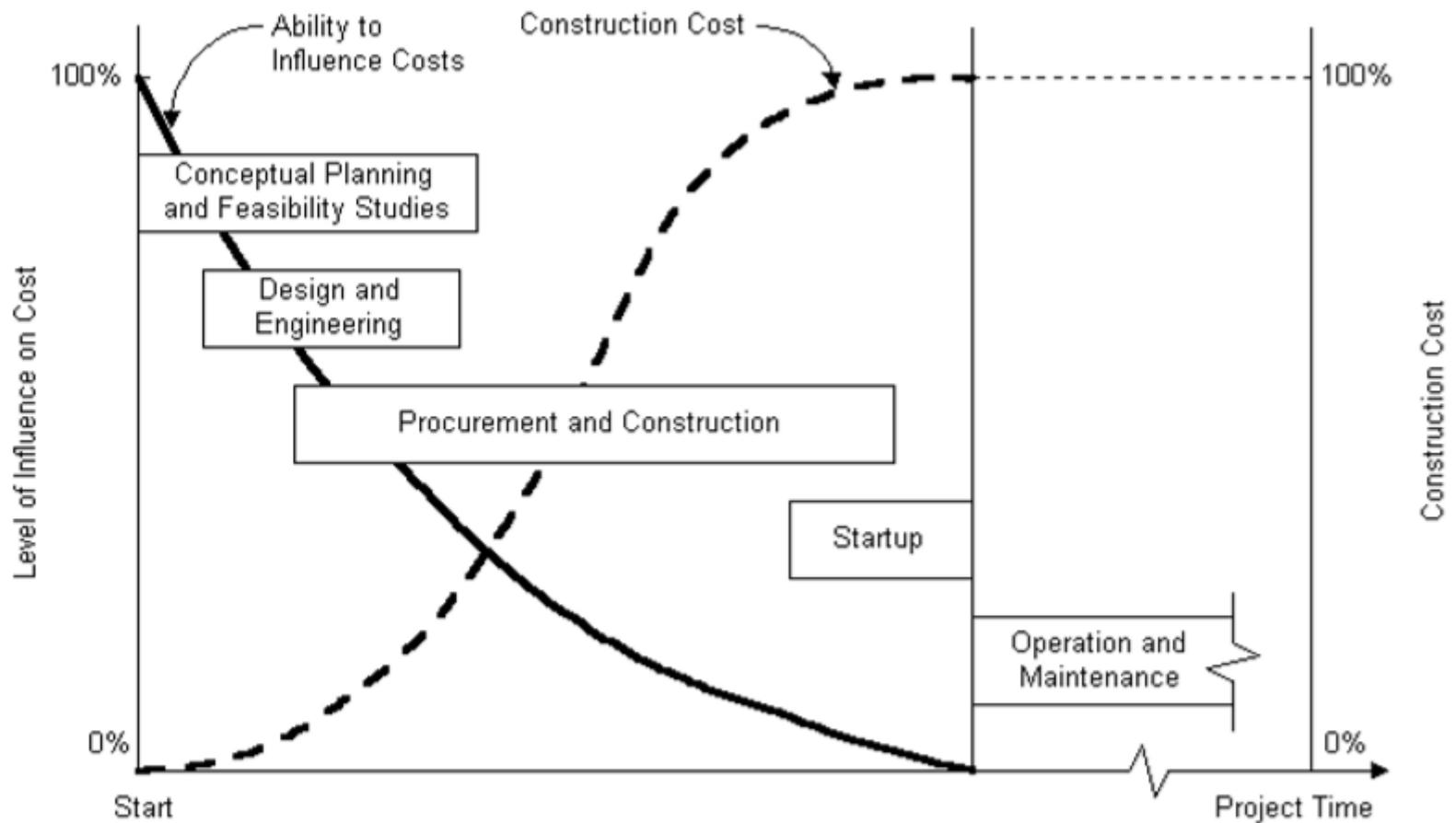


FIG. 2. INFLUENCE OF VARIOUS PARTIES ON THE COST OF NEW FACILITIES



**Figure 2-3: Ability to Influence Construction Cost Over Time**

# Technopark Example

## Designer selection

# Summary

- Project Stages
- Influence of Various Parties on the Project Cost
- Technopark Example (Designer selection)

**Next ---> TOR for Technopark (Design)**

Any Questions??