I.T.U. Faculty of Architecture
Division of Construction Management
Construction Management and

ECONOMICS COURSE

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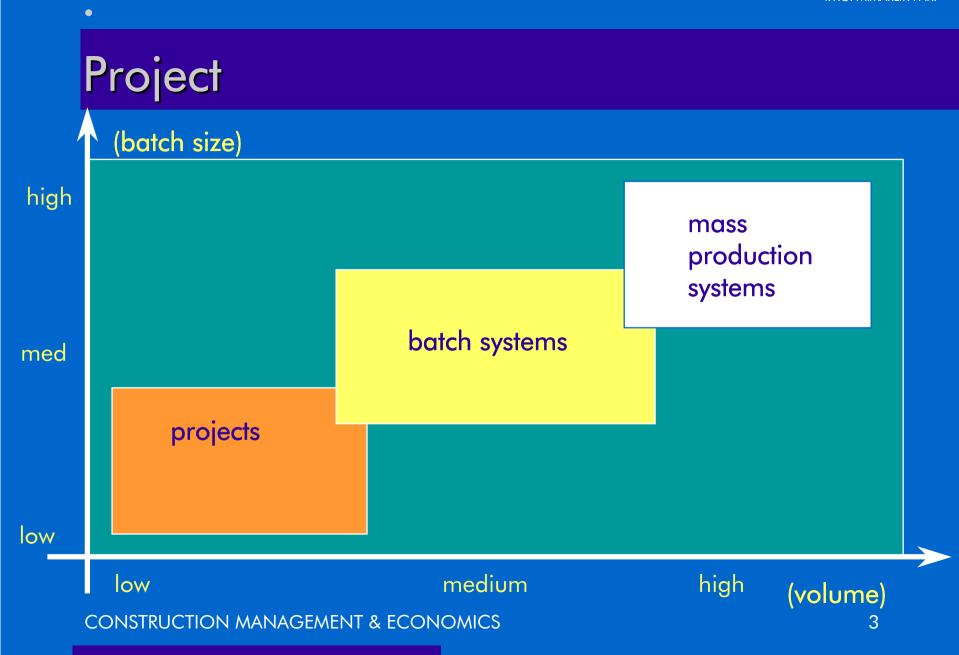
Introduction to Construction
Management
Basic Concepts

Dr. Alaattin Kanoğlu (Assoc.Prof.)
I.T.U. Faculty of Architecture

Basic Concepts

Project is defined as the set of production activities that:

- is fulfilled just once (unique),
- is not repeated (non-repetitive)
- has a pre-defined duration and start and finish time,
- has a pre-defined butget,
- İs fulfilled by a temporary organization



Phases of building production process

- Initiation,
- Pre-design,
- Design,
- Bidding,
- Tendering,

- Contracting,
- Construction,
- Close out,
- Operating,
- Demolition.

Alternative processes

TRADITIONAL	PREDESIG	DESIGN	TENDER	CONSTRUCTI	
ACCELERATED	PREDESIG				
	DESIGN				
		TENDER		t	
		CONST	RUCTION	←	

Participants of building production

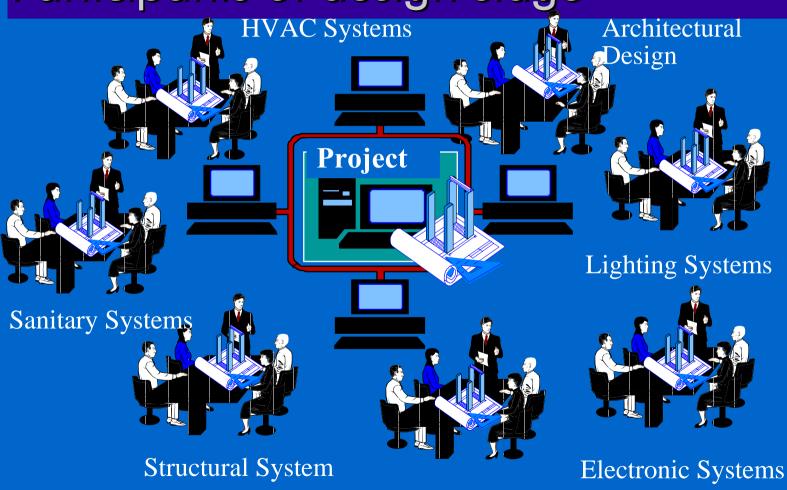
- Entrepreneurs
- Designers
- Consultancy Companies
- Suppliers / Vendors
- Contractors / Subcontractors

- Software Developers
- Education Foundations
- Research Foundations
- Information Providers
- Public Authorities
- etc.

Participants and their roles



Participants of design stage



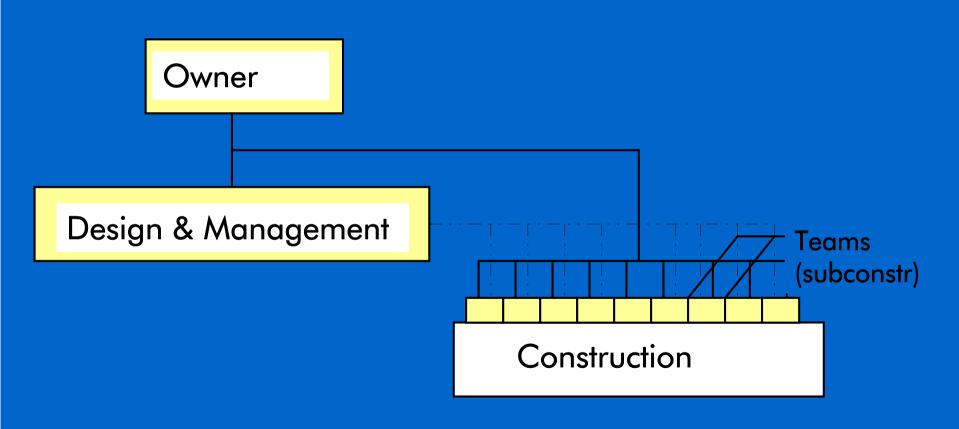
Participants and roles (design+build)



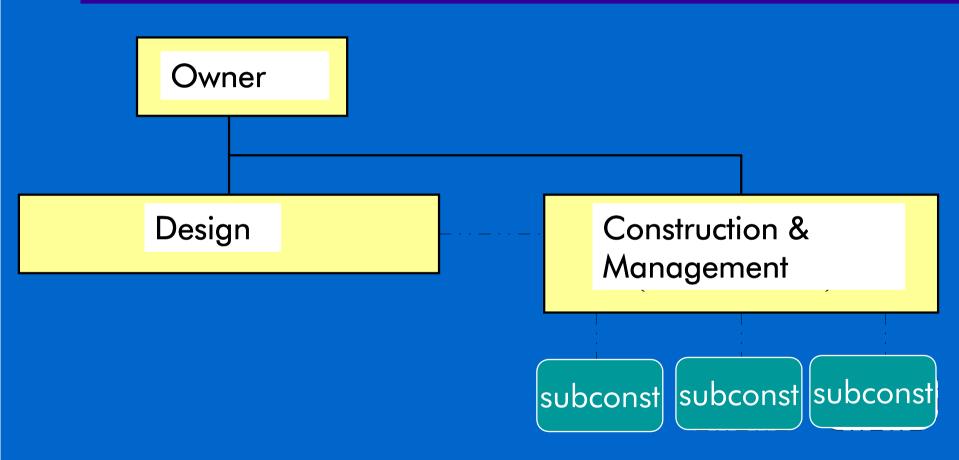
BENNETT, John, International Construction Project Management - General Theory and Practice, Oxford: Butterworth-Heinemann), 1991

Design, Management, Construction

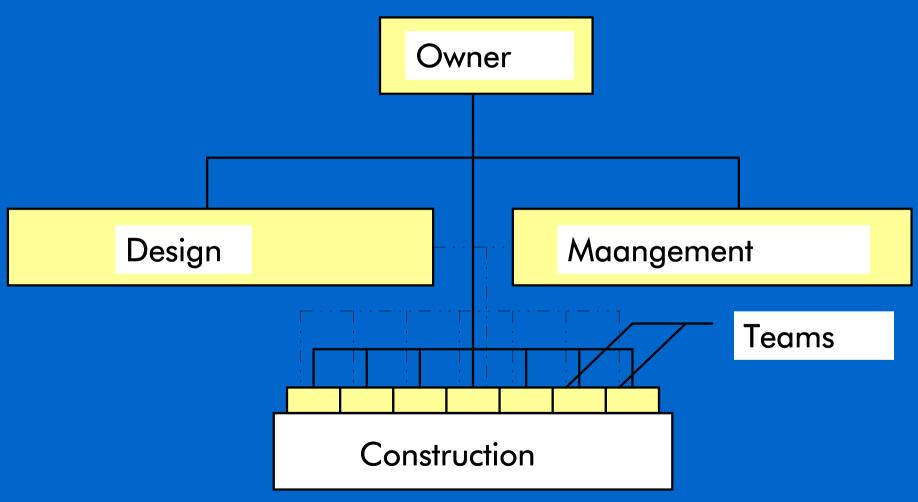
Participants and roles (separate trades)



Participants and roles (general constructor)



Participants and roles (construction manag.)



Management of Construction Projects

Management of Construction Projects is defined as:

- ✓ planning,
- √ organizing,
- √ executing, and
- √ controlling,

of a construction project from beginning to the end of building production process by considering,

managing

- ✓ duration,
- ✓ cost, and
- ✓ quality

limitations given by the client.

Basic problem areas in CM

