

Managing risk from procurement to completion of major infrastructure projects



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Managing Risk from Procurement to Completion on Major Infrastructure Projects

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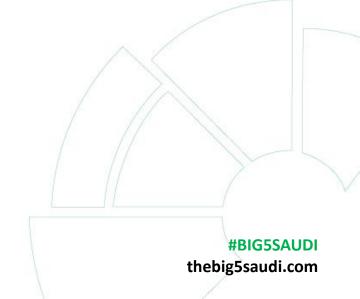
Agenda







- 1 Risk Management
- Project Objectives
- **3** Procurement Models
- 4 Standard Forms
- **5** Cost Models
- **6** Common pitfalls affecting Projects



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Risk Management



Risk Management on Major Infrastructure Projects







- Risk may be defined as an uncertain outcome (either positive or negative) which may affect the course of a procurement exercise at a future date
- Risk management is a critical and continuous process on a project and should be monitored
- Effective risk management will help to manage and improve performance and mitigate risks

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Procurement Models

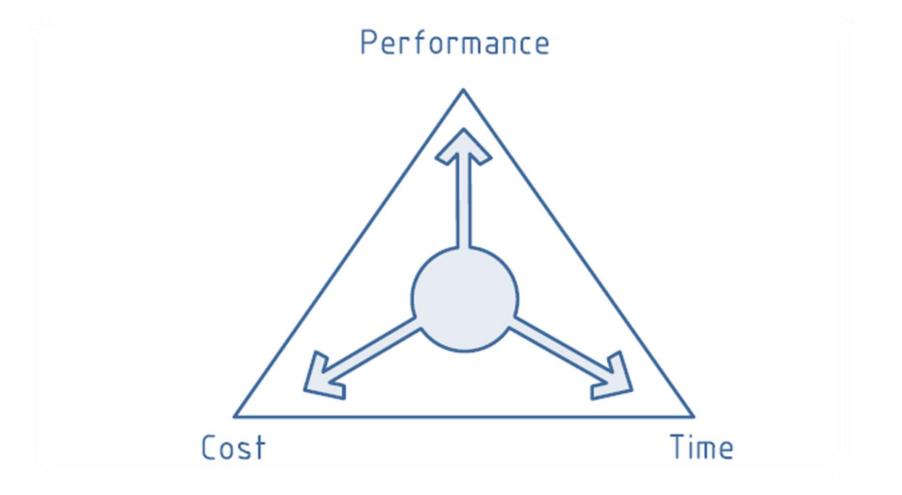


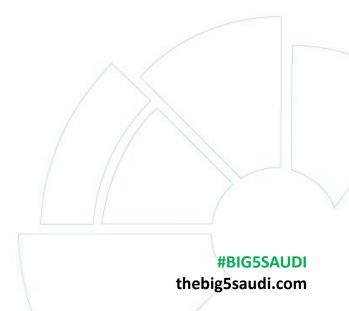
Project Objectives











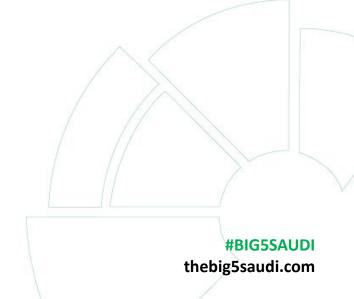
Procurement Models







- 1. Traditional
- 2. Design and Build
- 3. Construction Management
- 4. Management Contracting
- 5. Early Contractor Involvement (ECI)
- 6. Framework Contracting

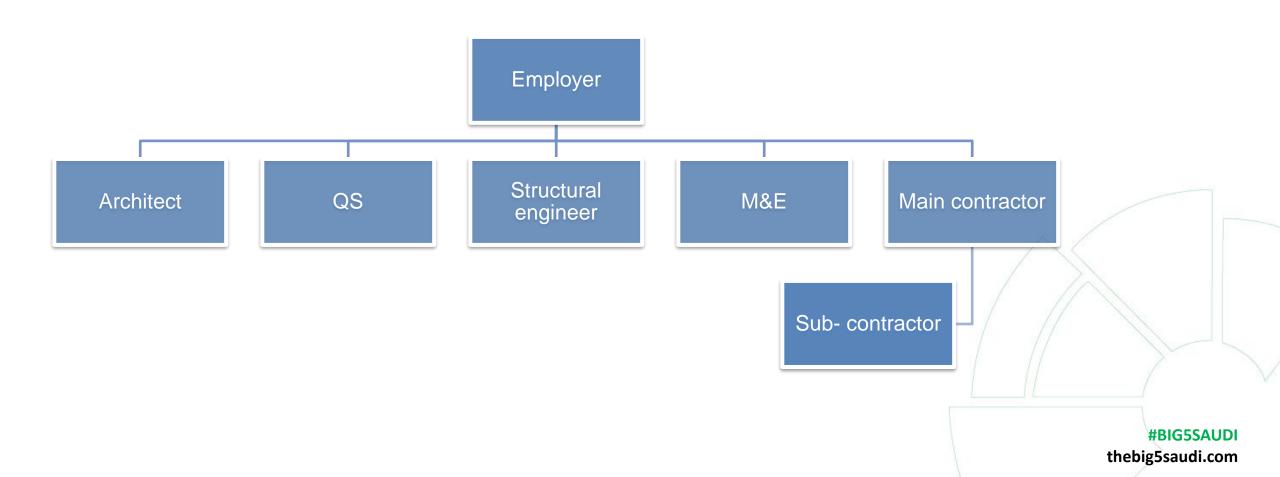


Procurement Routes – Traditional







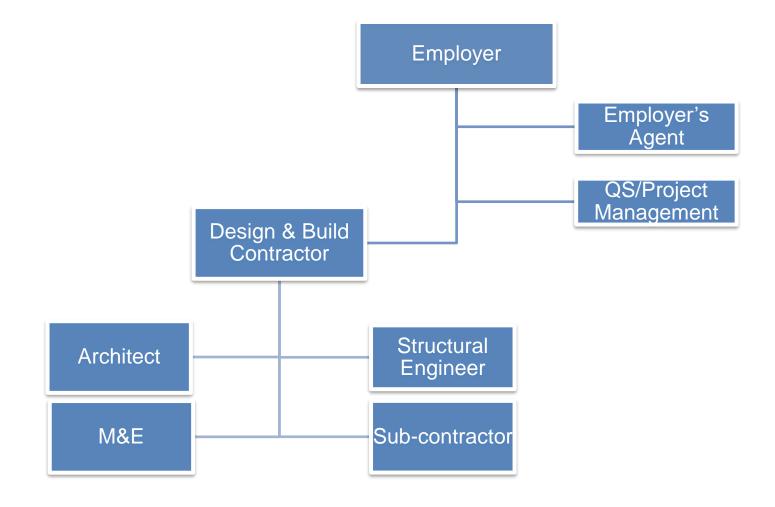


Procurement Routes – Design and Build









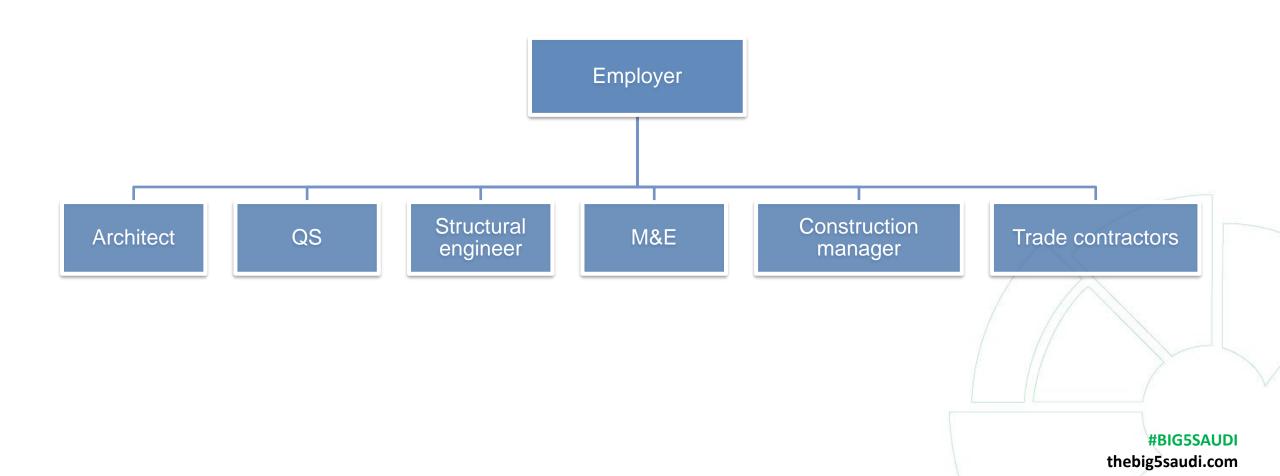


Procurement Routes – Construction Management







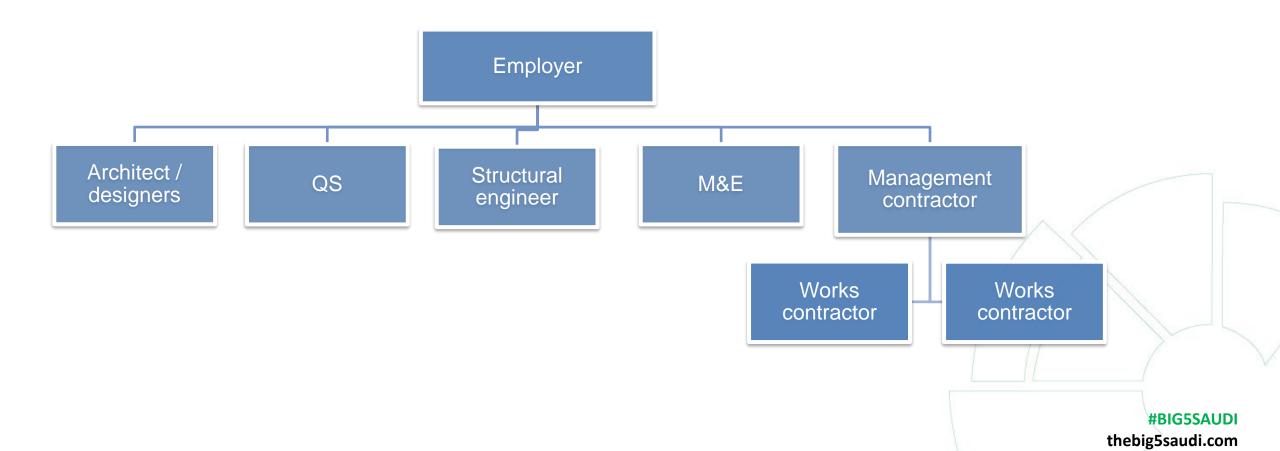


Procurement Routes – Management Contracting















EMPLOYER'S RELATIVE LEVEL OF INVOLVEMENT

Least involved

TRADITIONAL			
	D&B		
		CN	Л

Most involved









SEPARATION OF DESIGN FROM MANAGEMENT

Least separation

TRADITIONAL	
D&B	
	CM

Most separation

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CAPACITY FOR VARIATIONS

Least capacity

	TRADITIONAL	
D&B		
		CM

Most capacity







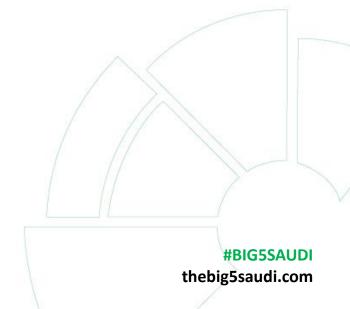


CLARITY OF CLIENT'S CONTRACTUAL REMEDIES

Least clarity

TRADITIONAL			
		D&B	
	CM		

Most clarity







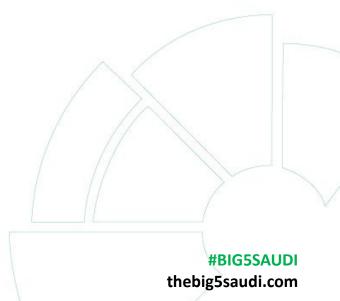


COMPLEXITY OF PROJECTS

Least complexity

	TI	RADITIONAL	
	D&B		
CM			

Most complexity









SPEED FROM INCEPTION TO COMPLETION

Slowest



Quickest







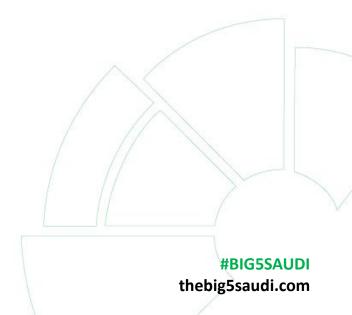


CERTAINTY OF CONSTRUCTION PERIOD

Least certain

	TRADITIONAL
	D&B
CM	

Most certain







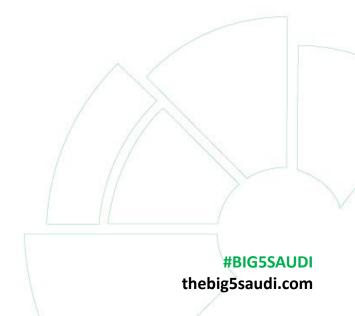


CERTAINTY OF PRICE

Least certain

	TRADITIONAL	
		D&B
СМ		

Most certain

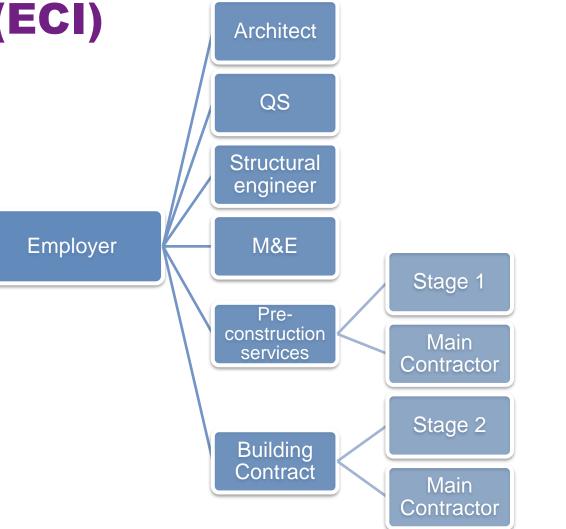


Procurement Routes – Early Contractor Involvement (ECI)









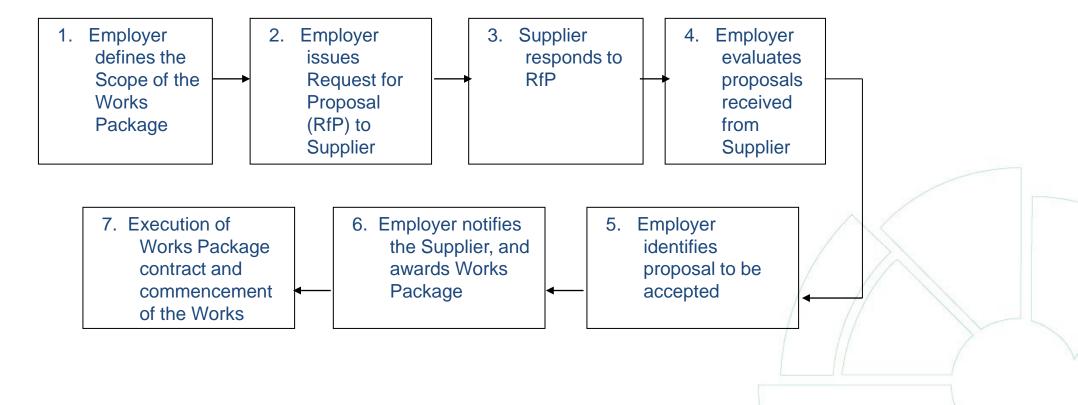


Framework Contracting







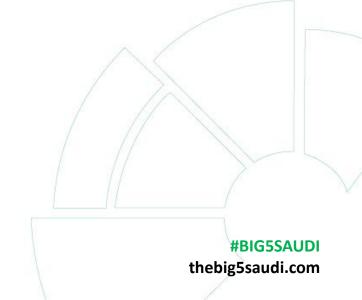


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Standard Forms



Standard form construction contracts

1. FIDIC 1999









2. FIDIC 2017



Standard form construction contracts

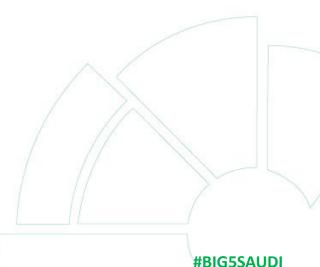






3. New Engineering Contract (NEC)





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Standard form construction contracts

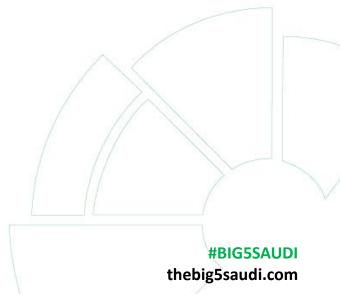






4. Institute of Chemical Engineering (IChemE)



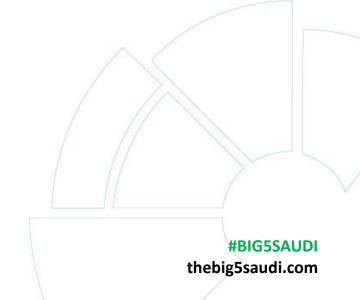


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Cost Models



Cost Models







- 1. Lump sum
- 2. Remeasurement
- 3. Cost plus/Cost reimbursement
- 4. Target cost contract



Lump Sum

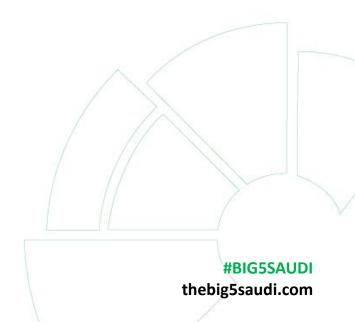






Under a lump sum contract, a single 'lump sum' price for all the works is agreed before the works begin





Remeasurement

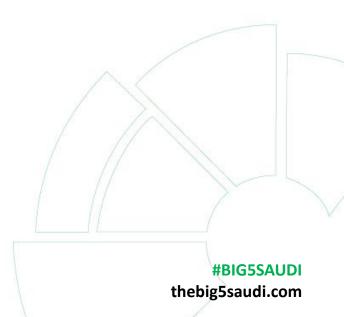






A contract where the amount to be paid for the work carried out is based on the remeasurement of work after it has been carried out, usually against a schedule of rates contained in the contract.





Cost plus / Cost Reimbursement







Cost-plus contracts can be separated into four categories. They each allow for the reimbursement of costs as well as an additional amount for profit:

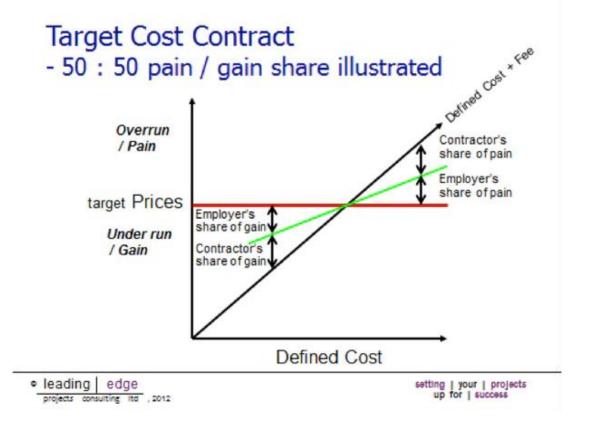
- 1. Cost-plus award fee contracts allow the contractor to be awarded a fee usually for good performance.
- 2. Cost-plus fixed-fee contracts cover both direct and indirect costs, in addition to a fixed fee.
- 3. Cost-plus incentive fee contracts happen when the contractor is given a fee if their performance meets or exceeds expectations.

Target cost contract









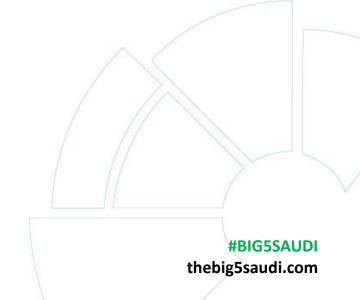


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Common pitfalls affecting Projects



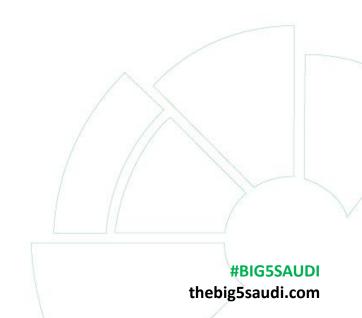


- 1. Unclear or incomplete scope of work
- 2. Variations and Instructions
- 3. Issues around Approvals









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