ECI: Two-Stage Contracts

Client and Contractor Considerations

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Sessions - Outline

- Introduction / refresher
- Session 1
 - Pre-Tender / Tender Phase
 - Workshop Example 1
- Session 2
 - Stage 1
 - Workshop Example 2
- Session 3
 - Stage 2
 - Workshop Example 3

Introduction

- Historically major infrastructure projects have been plagued by costly disputes
- Traditional methods have not always worked well
- Problems caused by:
 - inadequate definition of scope
 - buildability of design
 - inappropriate risk allocation
 - inadequate contract management

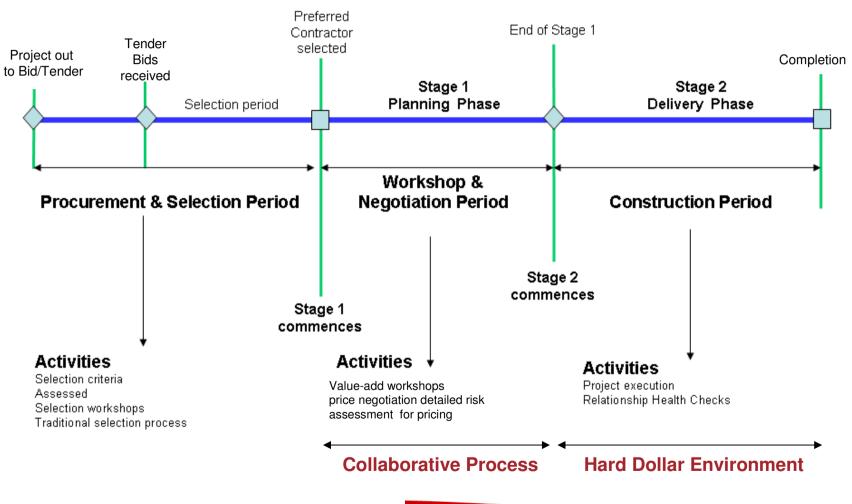
Refresher

- What is ECI?
- Why use ECI?
- How does it work?
- Comparison
- Value for money

Refresher What is ECI?

- An accurate name
- Two staged approach
- Covers a spectrum
- Relationship based
- Not a new concept:
 - alliancing
 - managing contractor

Refresher What is ECI? (cont)



Graphic used with permission from Stephen Callaghan, Alliance Contracting Summit and ACE Awards 2010

Refresher Why use ECI?

	Competitive Alliance	Early Contractor Involvement	Traditional	
Stage 1:				
Design Development	Risk Embrace	Risk Embrace	Risk Transfer	
Stage 2:				
Detail Design & Construction	Risk Embrace	Risk Transfer	Risk Transfer	

Risk Embrace: If there is a need for joint ownership of risk and decision making, significant

stakeholder interaction, scope uncertainty, functionality and construction

interface issues.

Risk Transfer: If there is little need for joint ownership of risk and decision making, limited

stakeholder interaction, the scope and functionality are well defined and

risks can be quantified.

Refresher How does it work? Pre-tender

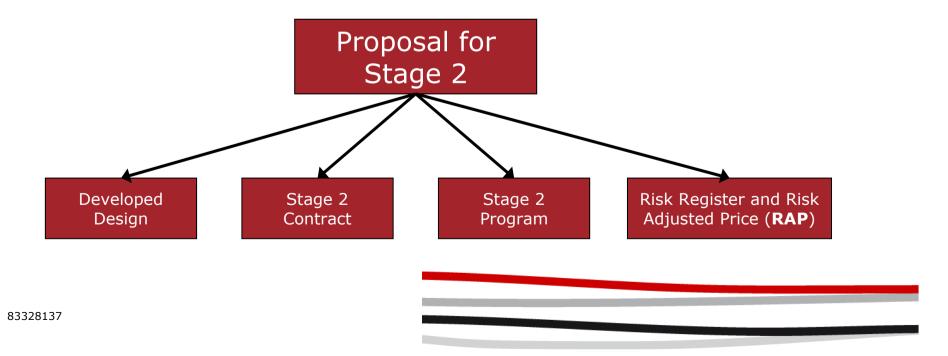
- Owner prepares tender brief:
 - input from consultants
 - level of information will vary
- Short tender period

Refresher How does it work? Tender

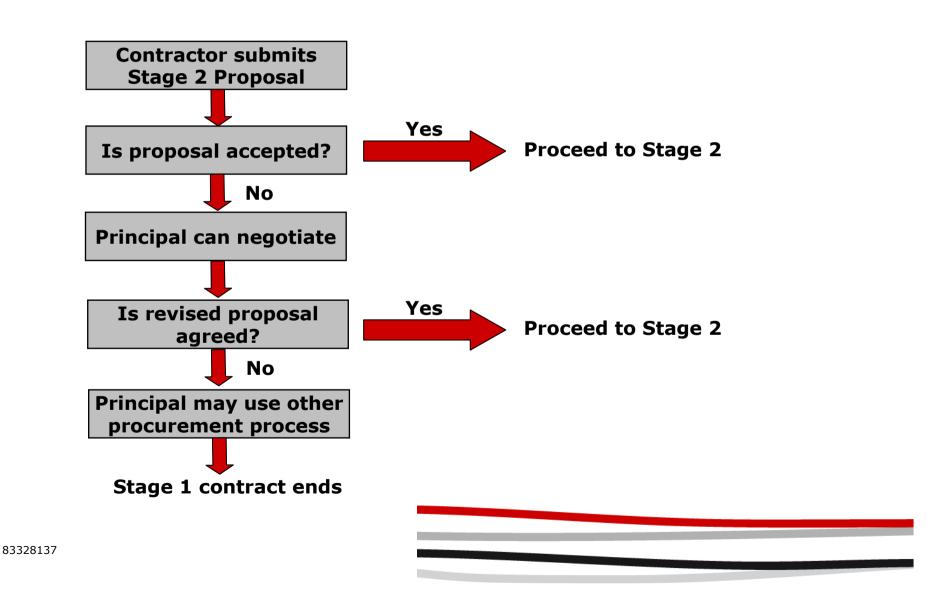
- Tender responses include:
 - rates for personnel/plant
 - indicative lump sums
 - benchmark projects
 - key personnel
 - understanding of key issues
- Interview process

Refresher How does it work? Stage 1

- Similar to interim alliance agreement
- Stage 1 Contract sets structure for interactive process to develop proposal for Stage 2
- Usually paid on reimbursable basis (perhaps capped)



Refresher How does it work? Stage 2 proposal



Refresher How does it work? Stage 2

- Completion of detailed design
- Construction of project
- Payment terms:
 - reimbursable with gainshare / painshare
 - lump sum
 - schedule of rates
 - incentive schemes

Refresher Comparison

	Traditional D&C	2 Stage ECI		
	Traditional D&C	D&C	Alliance	
Tender Basis	Competitive	Benchmarked	Benchmarked	
Tender documents	High	Low	Low	
Risk	Allocated	Negotiated and allocated	Shared (no blame)	
Final cost	Certain (subject to claims)	More certain (subject to claims)	Targets	
Client resourcing (Stage 1)	Low	High	High	
Client resourcing (Stage 2)	Low	Low	High	
Client design input	Limited	Varies	High	
Design innovation	Limited	Varies	High	

Refresher ECI – the players

	Pre-Tender	Tender	Stage 1	Stage 2
Owner	√	\checkmark	V	\checkmark
Owner's consultants	V	\checkmark	maybe	maybe
Probity Auditor		\checkmark	V	maybe
Contractor		\checkmark	V	\checkmark
Contractor's consultants		V	V	√
Relationship facilitator		\checkmark	V	\checkmark
Independent Estimator			V	maybe
Financial Auditor			V	maybe
Project Manager			√	√
Dispute Resolution Teams			V	√

Refresher The benefits

- Reduced pre-tender costs
- Shortened delivery times
- Team approach
- Innovation
- Integration of construction methods
- Sustainability
- Early procurement
- Fewer variations

Refresher The pitfalls

- Senior resources
- Too early?
- Too many cooks?
- Higher prices?
- Uncertainty?

Session 1 – Pre-Tender / Tender Phase

- When to use ECI
- One or two agreements?
- Single or double ECI?
- What sort of Stage 2 contract?
- Satisfying probity

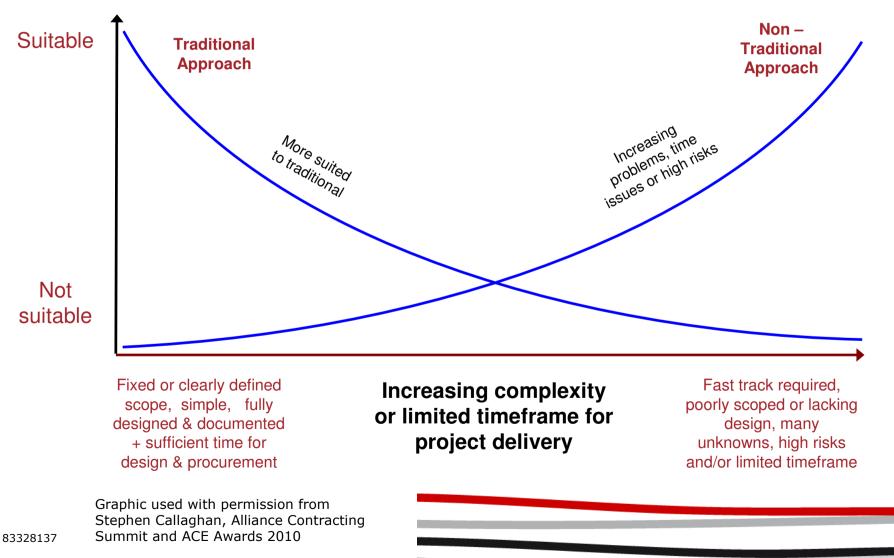
Session 1 – Pre-Tender / Tender Phase When to use an ECI contract

- Generally, consider:
 - type and size of project
 - type of Principal / expertise available
 - project objectives
 - the time available
 - the inherent risks of the project
- Mould contract to fit the needs of the project (not vice versa)
- Getting the structure right won't guarantee success, but it will help avoid disputes and time or cost blow-outs

Session 1 – Pre-Tender / Tender Phase When to use an ECI contract (cont)

- Particularly useful where:
 - need to fast-track the project
 - design is complex
 - many unknowns
 - significant risks exist in relation to the project

Session 1 – Pre-Tender / Tender Phase When to use an ECI contract (cont)



Session 1 – Pre-Tender / Tender Phase One or two agreements?

- Should Stage 1 and Stage 2 contracts be integrated into a single agreement?
- No, in most cases where:
 - a competitive Stage 1 process is used
 - Stage 2 contract is not 'fixed'
 - need to commence process quickly

Session 1 – Pre-Tender / Tender Phase Which Stage 2 contract?

- The Stage 2 contract can be almost any form
 - construct only (consider how design is procured)
 - design & construct
 - guaranteed maximum price (GMP)
 - alliance

Session 1 – Pre-Tender / Tender Phase Tendering process and satisfying probity

- Maximising competition
 - payment for Stage 1 and Stage 2
 - productivity rates
 - benchmarking
 - open book / independent estimator
 - financial auditor
 - probity auditor

Workshop Example 1



- Value for money
- Probity
- Maintaining flexibility in Stage 1 process
- Other contract issues

Value for Money

- Most government agencies:
 - must use their best endeavours to ensure competitive local industry is provided with a 'full, fair and reasonable opportunity' to supply
 - use a wide definition of value for money, which includes consideration of advancing government priorities (eg more jobs, work for local industry and valuing the environment)
- Arguably introduces ambiguity what exactly is value?

Probity

- According to IPA, a Probity Officer:
 - is to ensure fair treatment of all bidders and demonstrate that value is being delivered
 - is to retain perspective and focus on achieving a fair outcome rather than stifling competitive commercial processes
- Whilst focusing on achieving a fair outcome, it is also important that processes used to do this do not inhibit the outcome altogether

Maintaining flexibility in Stage 1 process

- The Stage 1 process should be flexible, and provide absolute discretion to Principal at the end of the process as to whether to proceed to Stage 2
- Need to be careful from a legal perspective

Other contract issues to consider

- Ownership of intellectual property
- Liability of contractor if Stage 2 proposal is not successful
- Cap on fees for Stage 1 process
- Maintaining continuity and key personnel into Stage 2

Session 2 – Stage 1 Client considerations – Stage 2 contract price

- How this is achieved will depend on whether a single or double ECI is used
- Single ECI will use 'benchmarking' with a Principal appointed quantity surveyor
- Double ECI will rely upon competitive tension between each ECI team

Session 2 – Stage 1 Client considerations – reducing 'contingency'

- Single or double ECI process can allow Principal to reduce 'contingency fees' by:
 - Contractors obtaining better understanding of the project
 - negotiation of risks / contingencies
 - Principal 'buying back' risk
 - setting up 'risk pools' in Stage 2 contract

Session 2 – Stage 1 Client considerations – negotiation

- Negotiation is usually required to:
 - confirm or to obtain better value for money
 - achieve a full understanding between the parties
 - establish or refine the statement of requirements and/or the performance regime
 - clarify issues or objections to contract provisions
 - explore any complex or one-off issues

Session 2 – Stage 1 Client considerations – negotiation (cont)

- Variety of negotiating styles
- There is no one right approach
- Approach used will depend on:
 - the resources available
 - the skills and experience of the personnel involved
 - what issues are to be negotiated
 - the timeframe involved

Session 2 – Stage 1 Client considerations – negotiation (cont)

- Understand which risks are most important:
 - risk assessment process
 - who can best control the risk?
- Know the law if the contract is silent, who bears the risk?
- Know market practice who normally bears the risk?
- Can the risk be mitigated outside the contract?
- Importance of preparation and strategy

Session 2 – Stage 1 Client considerations – negotiation (cont)

Tips and traps

- Don't start without knowing what is to be negotiated
- Deal with 'non-negotiable' issues up front
- Try to have a viable alternative to what is being offered
- Try and have time on your side
- Not everything needs to be negotiated and included in the contract
- Be careful about what you say (or don't say) in negotiations

Session 2 – Stage 1 Contractor considerations

- Design and documentation
 - Developed interactively with Principal / designers
 - Must be sufficiently developed to price Stage 2 as a lump sum with 'defendable' contingency
 - Use risk documentation to detail contingencies

Session 2 – Stage 1 Contractor considerations (cont)

- Identify contractual and project risks early using a risk register that:
 - identifies all likely and possible material risks
 - estimates the maximum financial impact if the risk occurs
 - estimates the probability of each identified risk occurring
 - includes a detailed 'management strategy' to manage each identified risk
 - estimates the cost to implement each management strategy, and to the extent that there is a separate cost contingency included price for the management strategy, what contingency has been provided

Session 2 – Stage 1 Contractor considerations (cont)

- How to deal with risk and contingency
 - Risk register (and a risk apportionment management plan) should be used as the basis for negotiating risk and contingency
 - In a competitive environment, care must be used not to 'double up' contingency at different levels of price make-up

Session 2 – Stage 1 Contractor considerations (cont)

- Developing a realistic schedule and budget
 - Schedule and budget are interrelated
 - Monte Carlo analysis is commonly used to evaluate acceptable probability positions (ie P50 vs P90)
 - The Principal must understand what realistic (and acceptable) risk positions can be assumed by the Contractor

Workshop Example 2

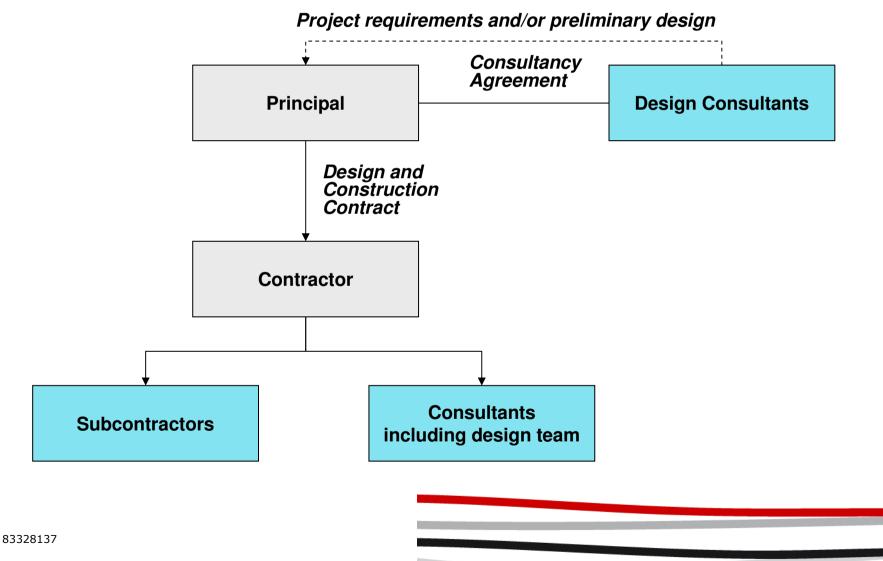


Session 3 – Stage 2 Client considerations

- Important legal issues to consider
 - relevant legal issues will depend on what type of Stage 2 contract is used
 - D&C
 - GMP
 - Alliance

(also perhaps construct only)

Session 3 – Stage 2 Client considerations - D&C



Session 3 – Stage 2 Client considerations – D&C (cont)

- Design risks assumed by the Contractor (warranties, cost, time, co-ordination of design and construct)
- Contractor undertakes to design and construct the project to meet the requirements of the Principal's design brief
- Design and construction phases can overlap

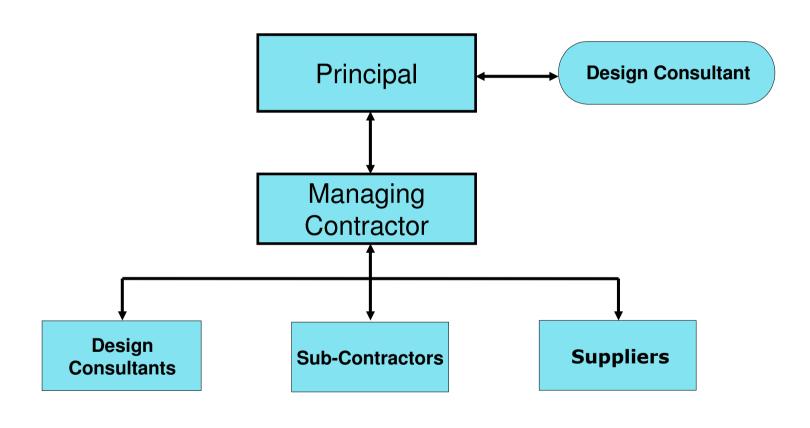
Session 3 – Stage 2 Client considerations – D&C (cont)

- Some issues:
 - Principal's design brief
 - Principal's design input: how does this impact on warranties?

Session 3 – Stage 2 Client considerations – D&C varied

- Risk pooling can use for any risk:
 - latent conditions
 - compliance with statutory requirements
 - changes in scope
 - cultural heritage discoveries
 - native title
 - examination and testing
 - delay and disruption costs
 - rise and fall

Session 3 – Stage 2 Client considerations – GMP



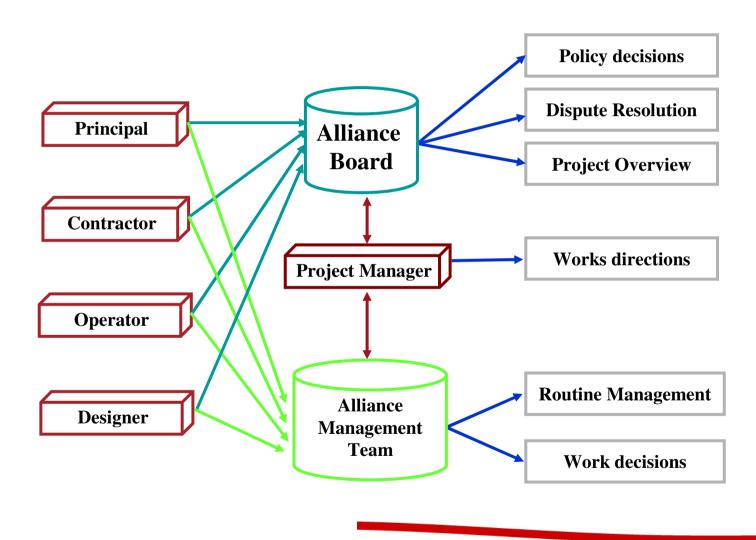
Session 3 – Stage 2 Client considerations – GMP (cont)

- Contractor guarantees that the work will be performed for no more than GMP (subject to variations / delay costs / latent conditions)
- Contract sum = actual costs of trade contractors plus margin
- If costs less, parties share savings
- If costs more, Contractor liable for overrun
- Scope for tension between the parties
- Disputes arise over variations to scope of work and delays

Session 3 – Stage 2 Client considerations – GMP (cont)

- Principal needs to keep overview of tendering
- Gives the Principal a share of savings associated with design development and contract implementation

Session 3 – Stage 2 Client considerations – Alliance



Session 3 – Stage 2 Client considerations – Alliance (cont)

'Pure' alliance concepts

- Non-adversarial
- Best-for-project focus joint responsibility for achievement of project goals
- Sharing of risks joint assumption of risk by all participants (subject to loss of profit and corporate overhead)
- No-blame culture (the 'leap of faith') parties work together to fix problems as they arise rather than apportioning blame
- Objective is 'win-win' or 'lose-lose'

Session 3 – Stage 2 Client considerations – Alliance (cont)

- Usual features:
 - Simple agreements in plain language
 - Not prescriptive or comprehensive
 - Owner surrenders 'control' to the alliance
 - Little or no risk allocation
 - Strong commitment to good faith, transparency and 'best for project' decisions

Session 3 – Stage 2 Client considerations – Alliance (cont)

• Risk:

- Joint acceptance of project risks by all parties
- Cap on risk sharing undertaken by non-owner parties
- Non-owner parties share in some risks which are usually borne by the owner and in each other's risks

Session 3 – Stage 2 Client considerations

- How can you maximise relational contracting on a hard dollar contract?
 - develop strong relationships during Stage 1
 - use incentivised payment mechanisms for Stage 2 to strengthen the common goals in the project
 - development of KPA's and KPI's during Stage 1
 - include an alternative dispute regime, such as a disputes review board

Session 3 – Stage 2 Client considerations (cont)

- Optimising a governance framework for Stage 2
 - use 'Project Leadership Team' and 'Project Management Team' across both Stage 1 and Stage 2 contracts
 - genuine commitment needed by senior executives of both parties
 - need to establish relationship early and meet regularly
 - use PLT and PMT to undertake meaningful roles in each contract

Session 3 – Stage 2 Client considerations (cont)

- For D&C or GMP Stage 2 contracts:
 - Contractor should take full responsibility for design produced during Stage 1
 - usually about 25%-35% design to be completed
 - essential to provide sufficient resources to Stage 1 to maximise benefits
 - Stage 2 contract still requires usual administration

Workshop Example 3

