# Selecting the Delivery Model

## The Construction Client's Group

**Craig Turner** 



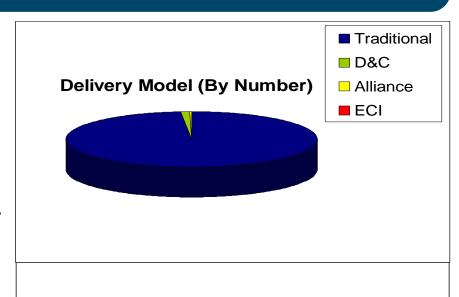
#### I WILL COVER...

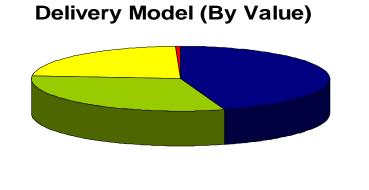
- ✓ The current suite of delivery options
- ✓ Our portfolio procurement strategy
- ✓ Our approach to delivery model selection
- ✓ Where project alliances are likely to be most effective.
- ✓ Pure Alliance vs Competitive Alliance



### WHAT ARE THE DELIVERY OPTIONS?

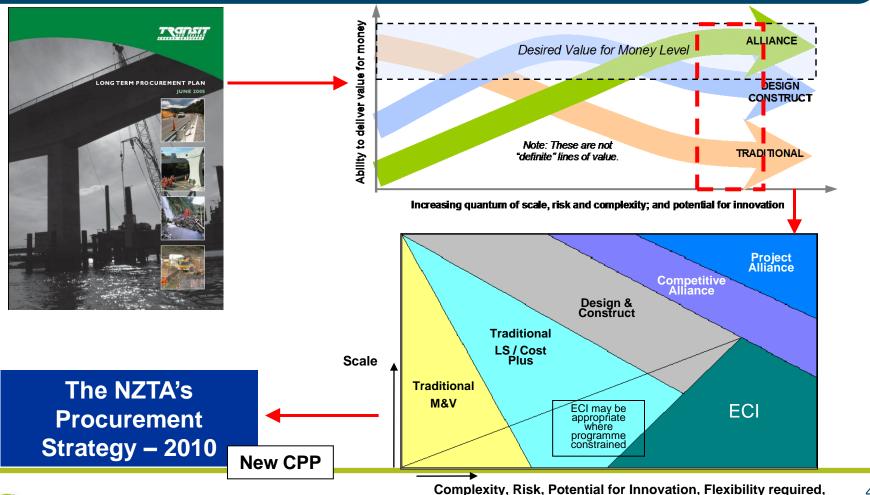
- Increasing number of delivery options
  - √ Traditional
  - ✓ Design Construct since 2001
  - ✓ Pure Alliance since 2001
  - ✓ **ECI** since 2006
  - ✓ **Competitive Alliance** since 2007
  - ✓ **PPP** ....in the near future
- Increasing complexity
- Which delivers best value for money?







### PORTFOLIO PROCUREMENT STRATEGY





Client Involvement, Supply Vs Demand, Programme constraint

#### PORTFOLIO PROCUREMENT STRATEGY

## What are the key principles?

- Delivery models developed with a consistent set of selection criteria
- Procurement to consider market impacts
- Maintain diversity in available delivery models to:
  - ✓ Enhance supplier selection possibilities
  - ✓ Learn different lessons from each model
  - ✓ Avoid the manipulation of a single process
- Specific project objectives to be considered in delivery model selection



### **DELIVERY MODEL SELECTION**

#### **Project Specific Characteristics**

- Technical challenges
- Time Constraints
- Stakeholders
- Statutory requirements
- Market Conditions

### **Delivery Model Characteristics**

- Risk Allocation
- Commercial tension
- Incentive to perform / innovate
- Administrative effort
- Procurement Timeframes



#### **DELIVERY MODEL SELECTION**

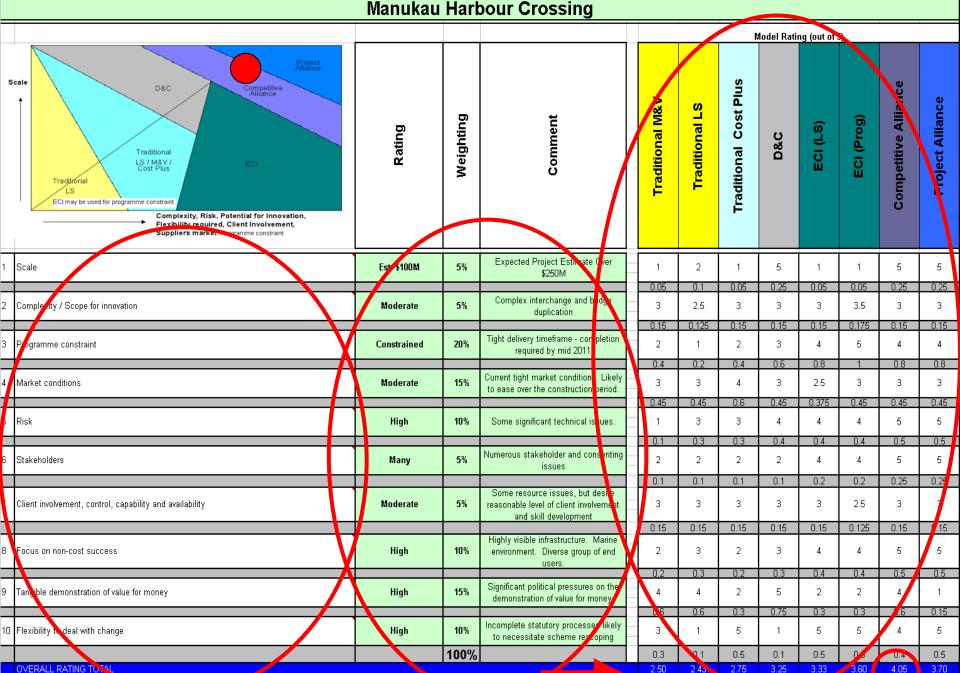
#### 10 Generic Factors

- ✓ Scale
- ✓ Complexity / Scope for Innovation
- ✓ Programme Constraint
- ✓ Market Conditions
- √ Risk
- √ Stakeholders
- ✓ Client Involvement
- √ Focus on non-cost areas
- ✓ Tangible demonstration of value for money
- ✓ Flexibility to deal with change



#### **Delivery Model Selection Matrix**

**Manukau Harbour Crossing** 



8

**OVERALL RANK** 

### PROJECT PROCUREMENT STRATEGIES



Large Project Stage 1\* Procurement Strategy <a href="color: red;"><</a>lnsert project name>>

1 Purpose

The purpose of this Stage 1 Procurement Strategy is to:

- document the key considerations made in the selection of a delivery model for the </insert project name>> project; and
- confirm the high level details in the approach to be taken to procurement.
- 2 Background
- 2.1 Description

<<Li>the high level objectives of the project, its key features, and the major scope items>>

<< Note the latest project outturn cost estimate and the allocation for the D phase>>

<<Summarise the key programme dates, or attach the most recent Risk Adjusted Programme, based on the selected delivery model>>

2.2 Status

<<Include a brief description of the status of critical aspects of the project such as: funding, statutory approvals, property acquisition, consultation, investigations including geotechnical data. Scheme Assessment, etc.>>

2.3 Large Projects Portfolio

<< Describe the tie-in with other projects due for tender / construction during the same period, including where possible consideration of both internal and external projects, at both a regional, and national level, if there are likely to be any capacity constraints etcos.</p>

<< Include consideration of the expected tenderers for the respective PS and PW tenders>>

3 Key Project Characteristics and Risks

The following project characteristics or risks have been identified as key to the decision on the most appropriate procurement model:

<<insert project name>>
\* Stage 1 Programment Strategy: to be consoleted prior to the tender of the DNPD phase.

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- > Project Procurement Strategies for all large projects (>\$4M)
  - ✓ Selection Matrix used as a rough sorting tool
- ➤ Regional Procurement
  Strategies for Block Programmes
  (<\$4M)
- Empirical approach taken



#### **FOCUSSING ON ALLIANCING**

#### > Pros

- ✓ Best for project focus
- ✓ Good incentives for performance
- ✓ Better management of risk
- ✓ Earlier involvement of Constructor.
- ✓ Reduced contract administration
- √ Skills legacy

#### > Cons

- ✓ Relatively high overhead
- ✓ Demand high level of input from senior staff
- ✓ Price uncertainty
- ✓ No cap on Client risk
- ➤ It's all text book stuff!!! .....how does this translate into the delivery model selection



### WHERE DO ALLIANCES WORK BEST?

- What project characteristics lend themselves to Project Alliancing?
  - ✓ Large Scale
  - ✓ High Risk
  - √ Complex stakeholder issues
  - ✓ Flexibility required
  - ✓ Difficult environment / Social issues



#### **Delivery Model Selection Matrix**

issues

Some resource issues, but desire

reasonable level of client involvement and skill development

Highly visible infrastructure. Marine

environment. Diverse group of end

Significant political pressures on the

demonstration of value for money

Incomplete statutory processes likely

to necessitate scheme rescoping

0.1

3

0.15

2

4

0.6

3

0.3

2.50

0.1

3

0.15

3

0.3

4

0.6

0.1

2.43

8

0.1

3

0.15

2

2

5

0.5

2.75

6

0.1

3

0.15

3

5

0.75

0.1

3.25

5

4

0.2

2.5

0.125

2

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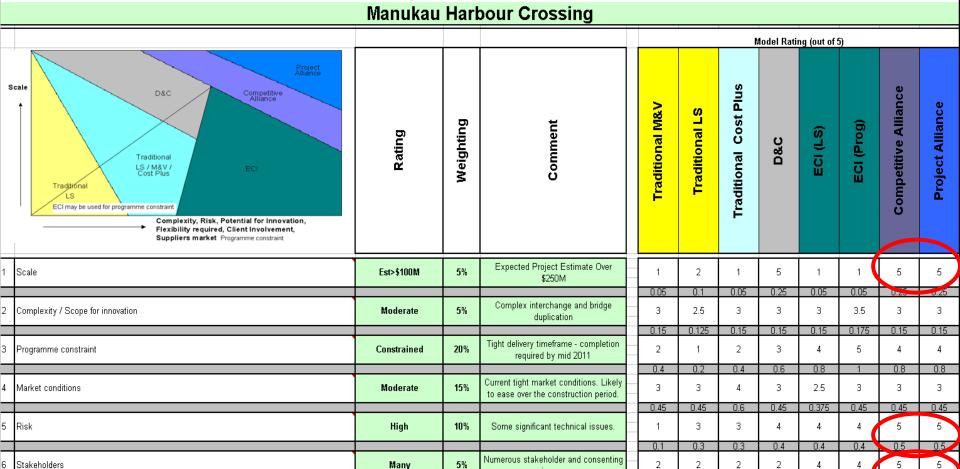
0.4

5

0.5

3.33

4



Many

Moderate

High

High

High

5%

10%

15%

100%

Stakeholders

Focus on non-cost success

IO Flexibilitγ to deal with change

OVERALL RATING TOTAL **OVERALL RANK** 

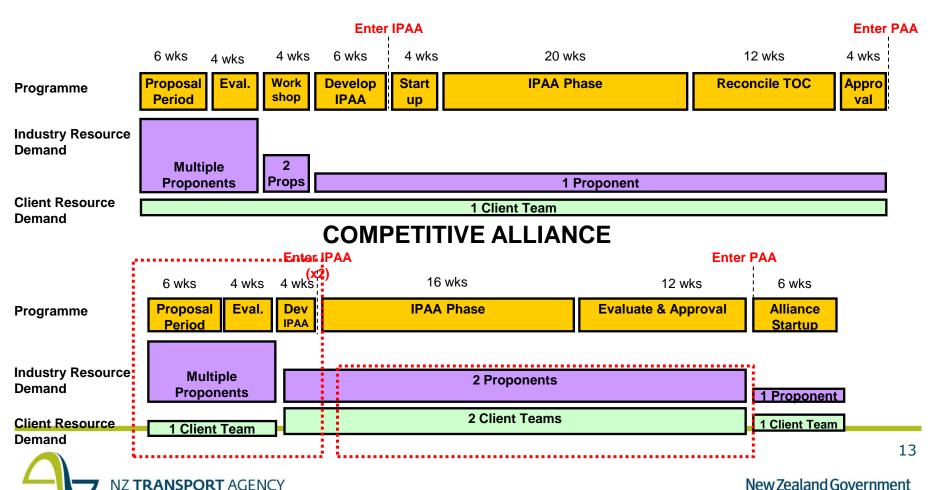
Tangible demonstration of value for money

Client involvement, control, capability and availability

### **PROGRAM**

WAKA KOTAHI

#### **PURE ALLIANCE**



### **PURE VS COMPETITIVE ALLIANCE**

#### **PURE**

#### **Pros**

- IPAA can commence earlier providing greater opportunities for early contractor involvement
- Can adapt more readily to changes
- Selection process based purely on NPA may procure better team

#### Cons

- "Soft" TOC perception
- Can be expensive in IPAA phase
- Risks around conclusion of the TOC reconciliation process

#### COMPETITIVE

#### **Pros**

- Good incentives for optimising the design during IPAA
- Potential time advantages in procurement
- More opportunities for suppliers
- Relies on market pricing

#### Cons

- Projects needs to be more developed before IPAA can commence
- Additional cost to industry
- May introduce perverse behaviours



#### **IN SUMMARY**

- More and more tools are available to us in the delivery of projects
- There are challenges in matching delivery model to project
- We will continue to look for projects suited to Project Alliancing
- We will continue to trial Competitive Alliancing and other collaborative approaches such as ECI
- There are benefits in the Alliancing approach that could be applied more widely

