

# How Roadmarking Contracts Will Be Managed

Joanna Towler  
Operations Engineer  
NZTA National Office

NZ Roadmarkers Federation  
Conference 2013



## Background

- All road controlling authorities are facing financial pressures
- Need greater efficiencies and effectiveness
- while still delivering within budget

## NZTA's Response

- The State Highway Maintenance and Operations Review, including:
  - review of procurement practices
  - collaboration with other Road Controlling Authorities (RCAs)
  - strengthening asset management capability and practice
  - focus on lifting capability



**Operations and Maintenance**

**Outcome Contract**

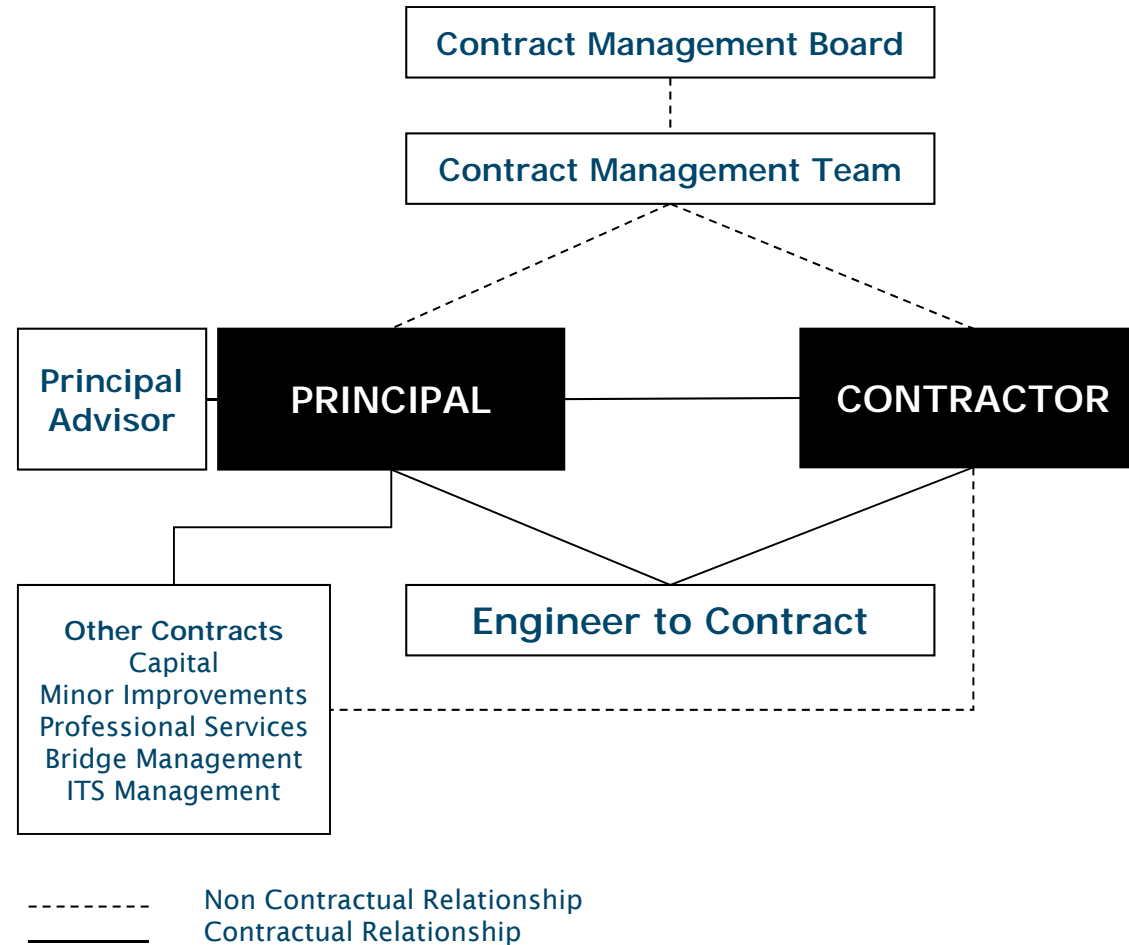
Now...

# Network Outcomes Contract model





# NOC Roles & Responsibilities





# NOC Outcomes

## KEY RESULTS AREAS

**Safety**

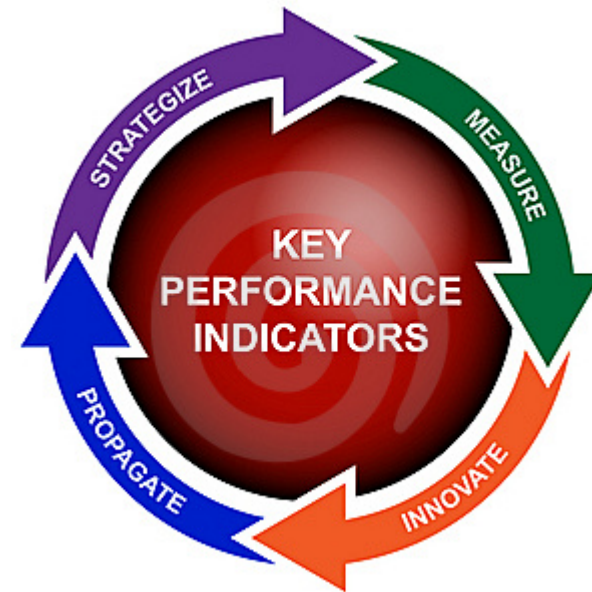
**Customer**

**Sustainability**

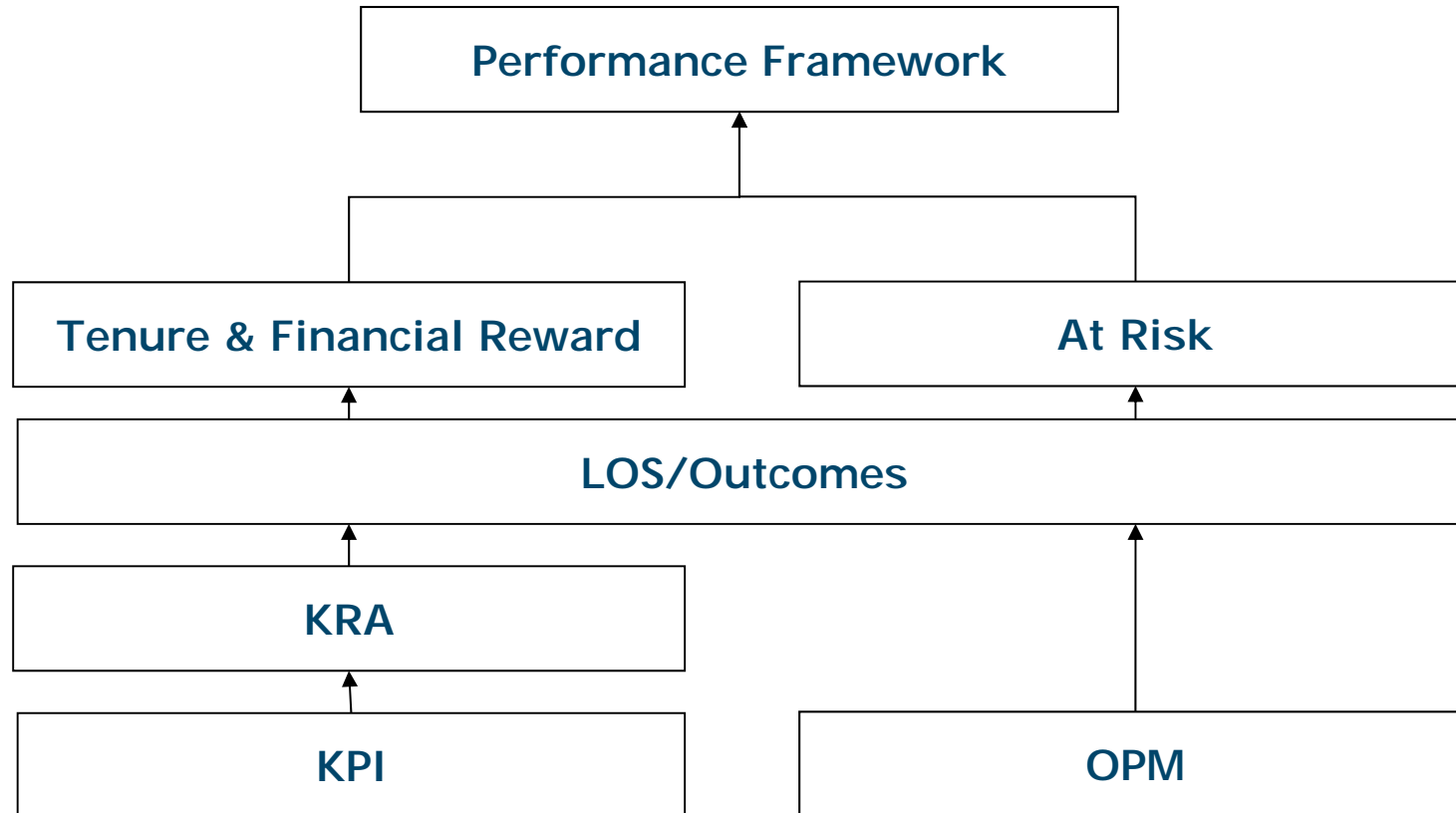
**Assurance & Value**

**Network Performance**

**Culture (Health of the Relationship)**



# NOC Performance Management Framework



## Construction Quality OPMs

- physical quality of all completed renewal and pavement marking programmes (100% sample)
- plus the occurrence of rework on the Contractor's general maintenance activities (10% sample by audit sections).
- Appendix 2.2, OPM Sample Sizes and Audit Frequencies.

## OPM Group 6.5.8: NZTA P/22 Pavement Marking

Lines, Text, Symbols, etc. (100% Sample Size, Measured Bi-annually)			
OPM	Contract Standard	Defect	PIP
121	≤ 1% of the completed programme.	After installation, faults identified as per NZTA P/22.	1 month
122	No defects.	Rework as identified in OPM 121 not corrected within the agreed time frame.	1 month

## Defects in P22 Spec for Reflectorised Pavement Marking

- Clause 12.2.2 Application
- Table 1 Thermoplastic height requirements
- P22 Clause 10 Dimensional Tolerances
- P22 Clause 18.2 Defects

## P22 Clause 12.2.2 Application

All markings shall have a uniform spread of thermoplastic, a clearly defined edge, no signs of pulsing, and be free from blisters, streaks and other defects and/or deleterious matter.

## P22 Table 1: Thermoplastic height requirements

Description	Requirements
New markings	2.0 – 2.5 mm asphalt 2.0 – 3.0 mm chipseal
Remarking over existing thermoplastic	4.0 mm maximum
Joins and overlaps on lines	4.00mm
Joins and overlaps on letters and symbols	4.00 mm maximum

## P22 Clause 10. Dimensional Tolerances

The maximum permitted dimensional tolerances shall be:

(a) gap length between segments where:

(i) gap is 3.0 m or more  $\pm 300$  mm;

(ii) gap is less than 3.0 m but greater than 1.0 m  $\pm 150$  mm;

(iii) gap is 1.0 m or less  $\pm 50$  mm.

(b) length of segments;

(i) segment is longer than 5.0 m  $\pm 150$  mm;

(ii) segment is shorter than 5.0 m but longer than 1.0 m  $\pm 75$  mm;

(iii) segment is 1.0 m or shorter  $\pm 50$  mm.

(c) + (d) paint and thermoplastic line widths:

all line widths + 10 % - 5 %

(e) when markings already exist, within 15 mm of the average centreline of the existing marking;

....Etc.



## P22 Clause 18.2 Defects

Defects shall include, but not be limited to, the following:

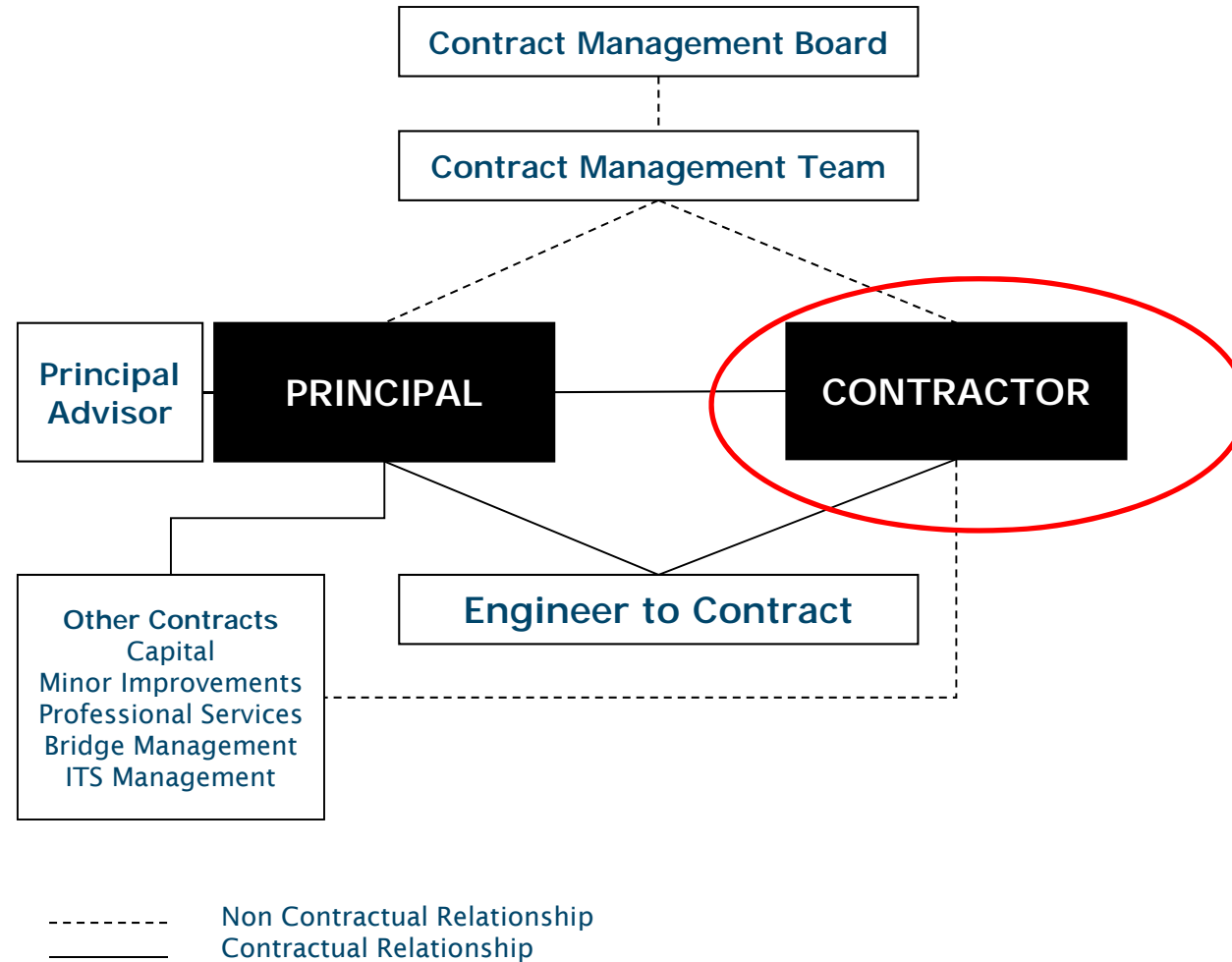
- (a) Roadmarkings which exhibit signs of spalling, flaking, or any other form of deterioration (other than fair wear and tear) resulting in the roadmarking not complying with the specified requirements for width and thickness.

## P22 Clause 18.2 Defects, continued

Defects shall include, but not be limited to, the following:

- (b) Roadmarkings which show signs of excessive wear.
- (c) Roadmarkings exhibiting lack of adhesion to the road surface.

# NOC Roles & Responsibilities



# Healthy Market

- NZTA Aspirations are to:
  - Promote and maintain an open market procurement process,
  - Have a minimum of four contractors,
  - Have at least four contractors with two or more NOC contracts (10% + by lead, based on value)
  - Have at least three tenders per NOC contract tendered,
  - Have a minimum of three consultants working within the M&O primary supplier space,
  - Set a minimum default percentage of 20% for sub-suppliers,
  - Have tenderers demonstrate that they have the appropriate technical skill

# Proposed Tender Process

Two stage process;

- Stage 1: Statement of Interest and Ability (SIA)
- Stage 2: Price Quality Simple

# Proposed Tender Process

Stage 1: Statement of Interest and Ability (SIA)

Rule 1: Primary Supplier, Joint Venture or Consortia constituents collectively, shall be pre-qualified to at least one level A category.

Rule 2: At least one supplier (be it subcontractor) prequalified to level 2A

# Tendering Program

The Program to Date is:

- South Canterbury
  - SIA, 29 July (5 weeks)
  - RFT, 1 September (12 weeks)
  - Tender Close, 25 November (4 weeks)
  - Award, 20 December (3 months establishment)
  - Commence, 1 April 2014

## Tendering Program, continued

The Program to Date is:

- Taranaki, SIA commences 23 September
- BoP East, SIA commences 18 November
- Wellington, SIA commences 20 January
- BoP West, SIA commences 10 March



## A word about tender pricing – Asset Growth (provisional items)

Item	Description	Unit	Quant-ity	Rate	Amount
2.3.3	Pavement Marking – Full RTB	Ea.years			
2.3.4	Pavement Marking – EL	m.years			
2.3.5	Pavement Marking – Flush medians/ Shoulders	m.years			
2.3.6	Pavement Marking – No passing	m.years			

## A word about tender pricing, continued, P22

Item	Description	Unit	Quantity	Rate	Amount
6.12.4	NZTA P22 Pavement Marking				
6.12.4.1	Pavement Marking (180 micron) SH x, RS xx, total of xx Cl.km	ea			
6.12.4.2	Pavement Marking (180 micron) SH x, RS xx, total of xx Cl.km	ea			
6.12.4.x	Pavement Marking (220micron) (Extra over-rate for Schedule Items)	cl.km			
6.12.4.y	Pavement Marking (300micron) Extra over-rate for Schedule Items)	cl.km			

## A word about tender pricing, continued

Item	Description	Unit	Quant-ity	Rate	Amount
6.12.5	High Performance Road Marking				
6.12.6	Audio Tactile Profiled Road Marking (provisional items)				
6.12.6.1	Remove existing ATP	m			
6.12.6.2	150 mm Edgeline	m			
6.12.6.3	150 mm Centreline	m			
6.12.6.4	150 mm Continuous Centreline	m			
6.12.6.5	200 mm Centreline	m			
6.12.6.6	200 mm Continuous Centreline	m			





