



Transport
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CBD and South East Light Rail **INDUSTRY BRIEFING SESSION**

9 APRIL 2013



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Hon. Gladys Berejiklian, MP
MINISTER FOR TRANSPORT



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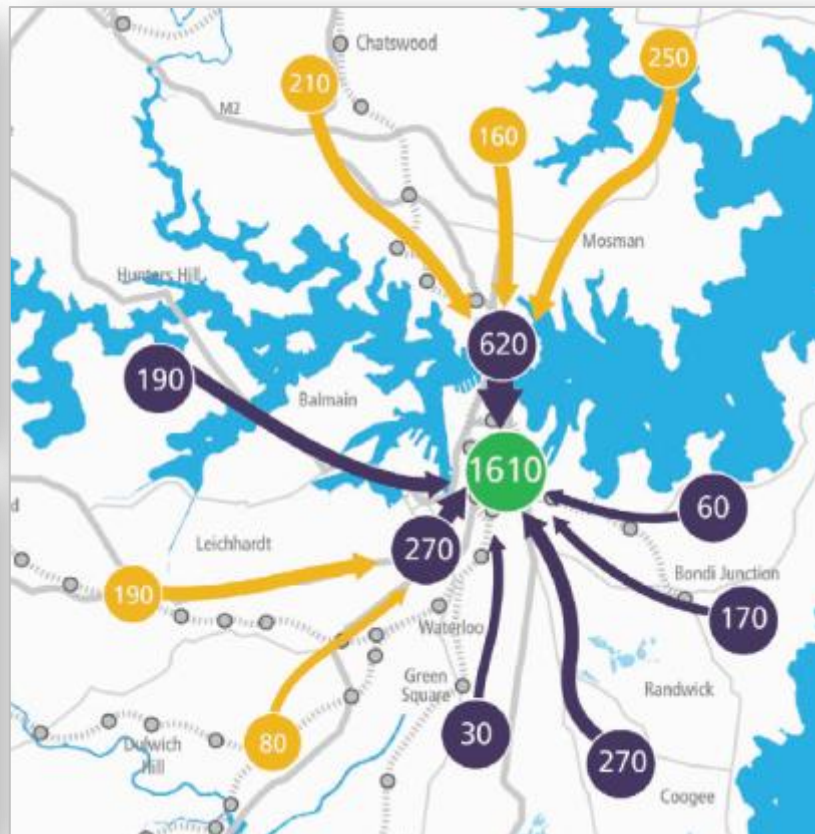
Chris Lock

**DEPUTY DIRECTOR GENERAL
TRANSPORT PROJECTS**



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Meeting the challenge



Part of a wider plan to cut CBD congestion

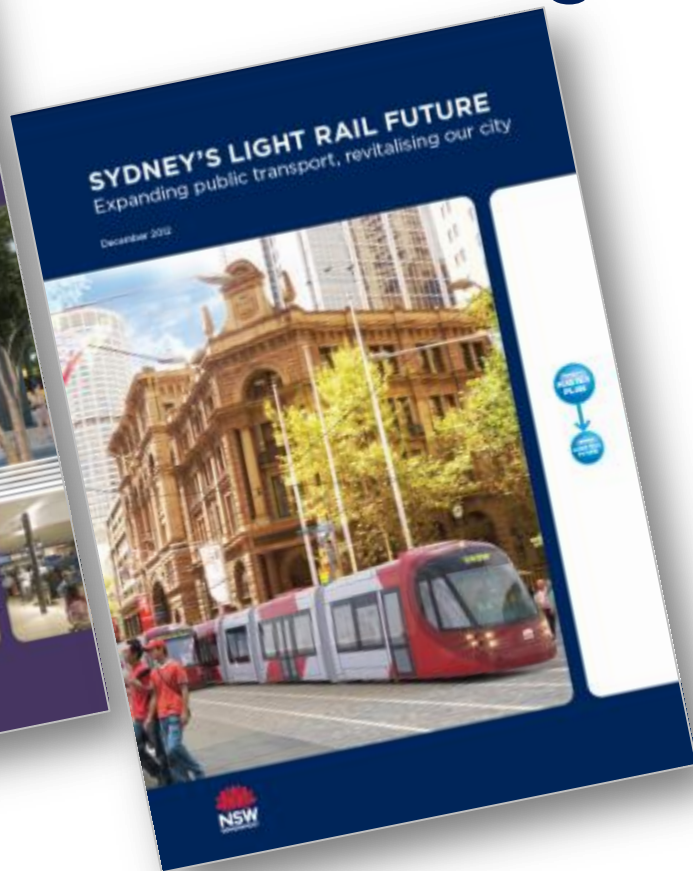
- 1** Diverting 60 buses onto Cahill Expressway
- 2** Redesigning bus network to be simpler, faster and better, removing 220 buses from CBD in peak hour
- 3** Light rail in CBD and South East to move up to 9,000 passengers per hour
- 4** North West Rail Link to provide faster, single deck trains every 5 minutes, and remove 160 buses from CBD
- 5** Second harbour rail crossing with capacity to carry up to 100,000 more people an hour





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Planning context





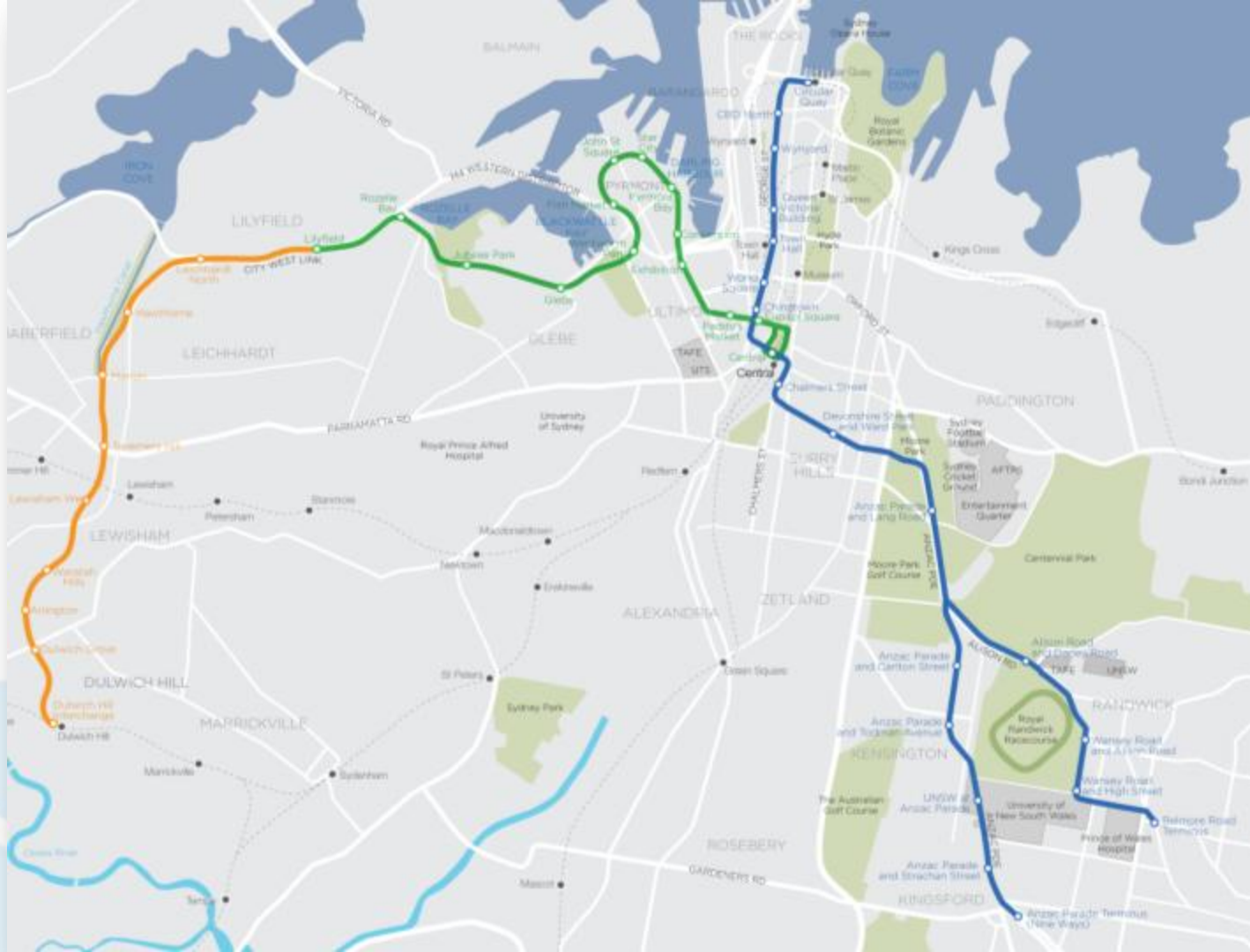
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Key

 CBD and South East Light Rail

 Existing light rail service

 Inner West Extension





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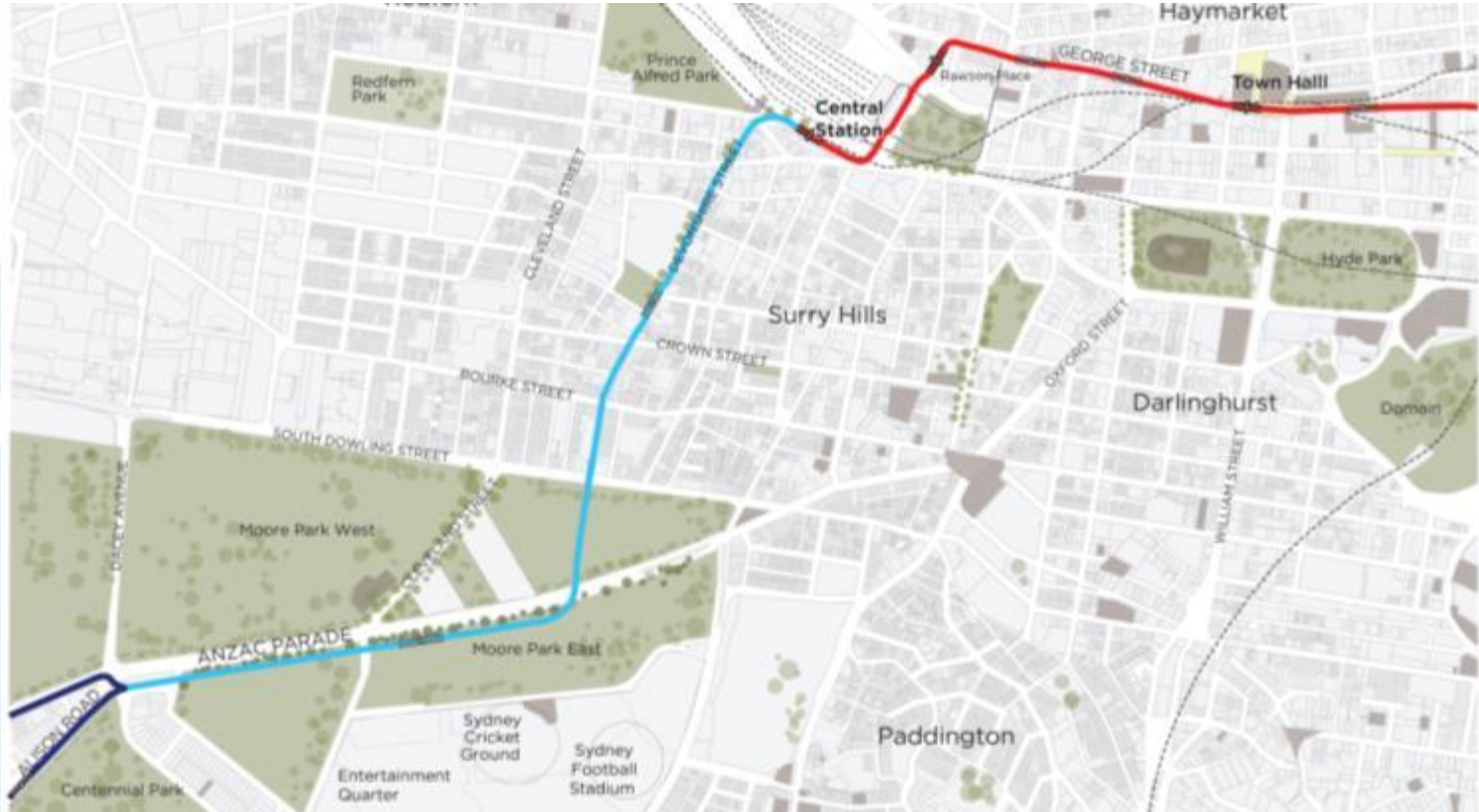
Circular Quay to Central





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Central to Anzac Parade





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Anzac Parade to Randwick and Kingsford





Network details

Description	CBD and South East Light Rail	Existing light rail and Inner West Extension
Length	12km	12.8km
Track gauge	1435mm	1435mm
Vehicle length	45m	30m
Vehicle capacity	300 people	200 people
Maximum speed	80kph	80kph
Overhead voltage	750Vdc	750Vdc
Catenary free operation	Potential in CBD area	None
Peak service frequency	Approx. 3 mins	Approx. 10 minutes
Maximum grade	7%	7%



Project program

2013

Feb 2013

Mobilise
Integrated
Project
Team

Apr 2013

MOU with
key partners

Apr 2013

Finalisation
of inputs to
definition
design

3rd Quarter

Definition
design
complete

4th Quarter

Business
case

Late 2013

Development
Agreements
with key
partners

Late 2013

Environmental
assessment
exhibition

2014

2nd Quarter

Planning
approval
granted

Mid 2014

Award
early works
contract

Mid 2014

Commence
construction
(major services
relocations)

End 2014

Award Design,
Construct,
Maintain and
Operate
contracts

2015 - 2020

2015-2020

Construction



Project benefits

Public transport benefits

to South East Sydney and UNSW

More reliable than buses

97% of services arrive within 2 minutes of scheduled time

Travel time savings

for many journeys

Fast

'turn up and go' services

25% reduction in buses

on major north/south routes through CBD

Better public amenity

less noise and pollution

Urban renewal opportunities



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Better connectivity





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Reduced congestion





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Service quality





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Urban renewal





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Global competitiveness





Current status

**Dedicated
project team
established**

Route defined

**Definition
design
developed**

**Stop, depot
and stabling
options
investigated**

**Community
engagement
commenced**

**Operations
planning
commenced**

**Site survey
nearing
completion**

**Environment
impact
assessment
commenced**

- Randwick City Council
- City of Sydney Council
- Australian Turf Club
- University of NSW
- Centennial and Moore Park Trust
- NSW Roads & Maritime Services

Key partners





Reference delivery strategy

WORK
ELEMENT

DELIVERY
METHOD

PACKAGE 1

Early
works

Managing
contractor

PACKAGE 2

Civil and
systems

Rolling stock

Maintenance

Operations

Includes existing and inner west extension

Design, Construct, Maintain and Operate Contract

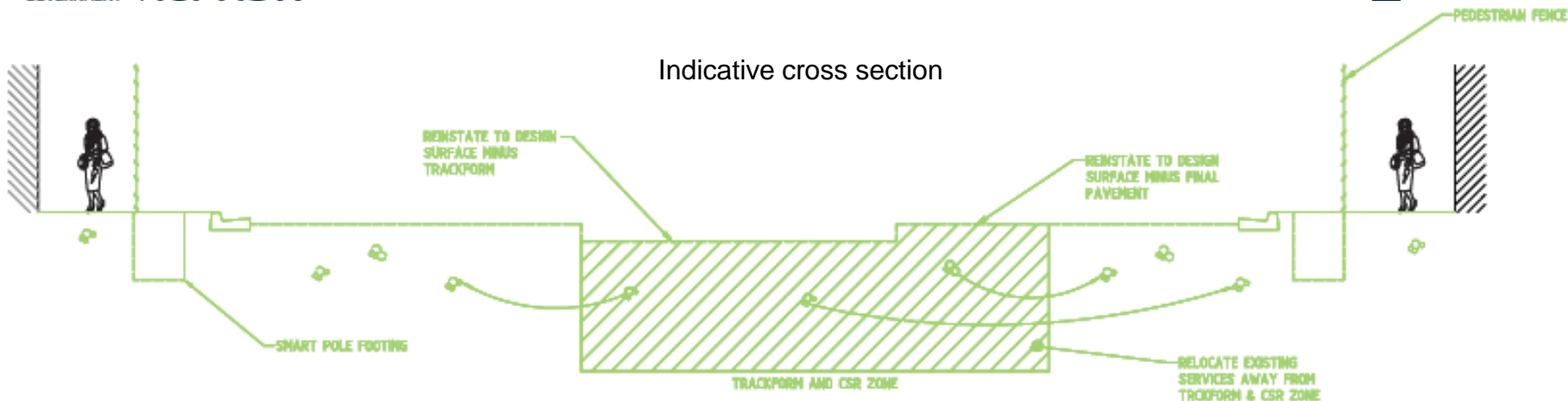
Single point of accountability
Interface risks managed and mitigated



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Early works



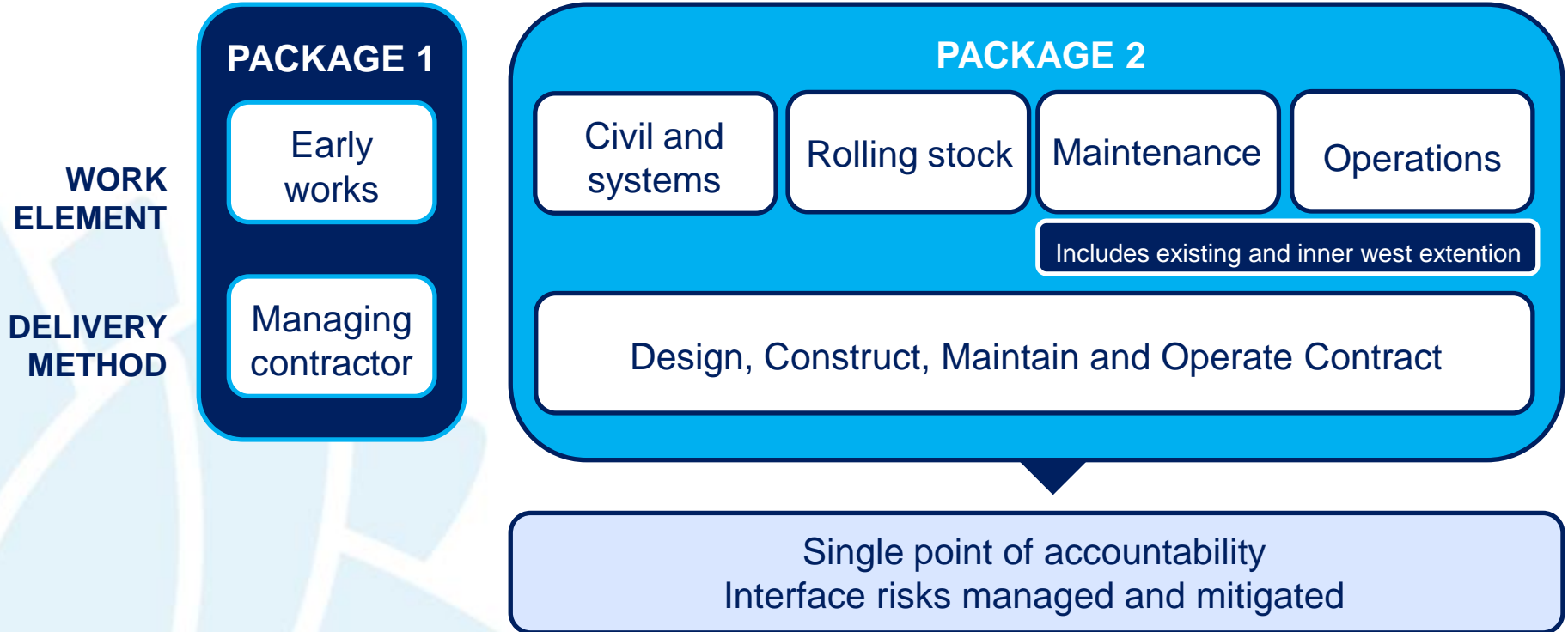


ENABLING WORKS

- Mobilisation and establishment of site compounds;
- Installation of site hoarding;
- Relocation and/or protection of services within the trackform and CSR zone;
- Relocation of services for OHW structure foundations;
- Reinstatement to invert track slab level and installation of temporary drainage.
- Demolition works;



Reference delivery strategy



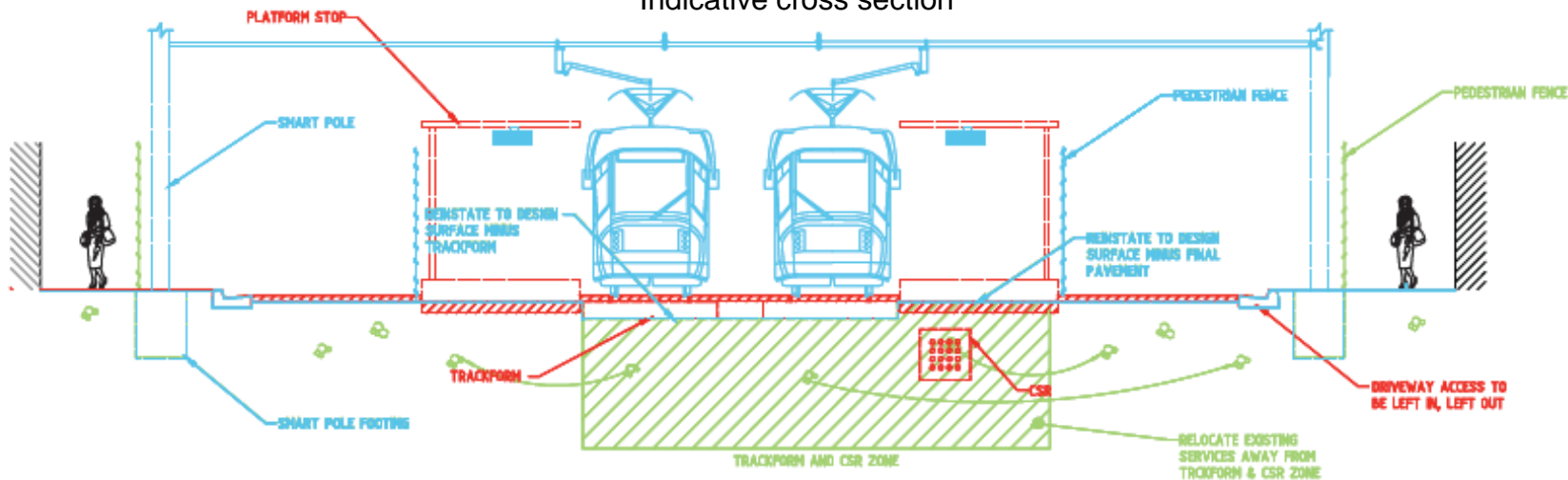


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Civils and systems



Indicative cross section



SYSTEMS WORKS

- Procurement of rolling stock;
- Installation of OHW structures;
- Relocation of site hoarding;
- Installation of local cable route to trackside equipment;
- Installation of cables;
- Track installation;
- Depot and stabling construction, fitout, test and commission;
- Substation construction, fitout, test and commission;
- OHW installation, test and commission;



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Rolling stock and maintenance





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Operations





Financial structuring

**Proposed PPP for Package 2: Design,
construction, maintenance and
operations**

**Operations will include new CSELR, the
existing Light Rail Service and the Inner
West Extension**

Delivery program

PACKAGE 1

Early Works: Managing contractor

EOI Release	Q3 2013
EOI Close	Q4 2013
RFT Release	Q4 2013
RFT Close	Q2 2014
Award	Q2 2014

PACKAGE 2

Design, construct, maintain and operate

EOI Release	Q3 2013
EOI Close	Q4 2013
RFT Release	Q1 2014
RFT Close	Q3 2014
Award	Q4 2014

EOI (Expression of Interest) RFT (Request for Tender)



Engaging industry

APRIL 2013

Industry briefing

MAY 2013

Workshops

MAY 2013

Written submissions

MAY 2013

Input to final delivery strategy

JUN/JUL 2013

Input to project business case



Engaged service providers

Service	Service Provider
Probity	Procure Group
Engineering	Arup, Hassell & Aurecon
Cost planning	Turner & Townsend
Transport planning	Booz & Co. / Aecom
Economics & Business Case	PriceWaterhouseCoopers
Shadow operator	Interfleet
Market Sounding	Everything Infrastructure
Constructability	Arup, Hassell & Aurecon
Planning approvals	Parsons Brinckerhoff
Procurement, commercial, property and financial law	TBA
Environment and planning law	TBA

Future service provider opportunities

Service	Scope
Engineering Support	Noise & vibration (in market) Geotechnical Early works design technical advisor Delivery construction support
Procurement, Commercial & Financial	Procurement transaction management (PPP) Financial & commercial advisor Business case management (in market)
Property	Surveyors Valuers Spacial services Interface management
Project management	Utility and third party agreements management (in market)
Project support services	Minor packages
Project delivery support	Independent certification services



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Next steps and key contacts

All opportunities advertised on e-tenders website

www.tenders.nsw.gov.au

Market sounding and industry engagement

Steven Bartlett, Everything Infrastructure

Steven.bartlett@eig.com.au

02 8265 8952

Appointed probity advisor

Catherine Boardman, Procure Group

cboardman@procuregroup.com.au

0410 535 889



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NSW Long Term Transport Master Plan

Integrated ticketing

North West Rail Link

South West Rail Link

Inner West Extension

CBD and South East Light Rail



Significant challenge

Requires efficient delivery solutions

Minimise disruption

Keep the city moving



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QUESTIONS