Industry, government and academia –
A relationship paradigm for the future of transport infrastructure

Mark Smith, Principal Manager Industry & Technical Development
Transport for NSW organisation

- Secretary
  - Transport for NSW
  - Agencies
  - Newcastle Coordinator General
  - CBD Coordinator General
  - Office of the Secretary
  - Sydney Metro Delivery Office
  - Sydney Light Rail Delivery Office
- Freight, Strategy & Planning
- Customer Services
- Infrastructure & Services
- People & Corporate Services
- Finance & Investment
ASA – purpose and core functions

• Making it clearer and simpler
  – for Transport Cluster
  – for supply chain
• Enabling innovation
• Fit for purpose assets
• Driving transparency
• Values and customer focus
The Progressive Assurance Model

![Diagram of the Progressive Assurance Model with various puzzle pieces representing different aspects such as RAM, Risk Management, System Safety, AEOs, Human Factors, Asset Stewardship, and more.]
Assuring TfNSW across all modes
Total asset management delivery: AEOs

**Stakeholders**
Management of stakeholder activities

**Coordinated delivery**
Coordinating delivery of assets or services with the end user

**Engineering Assurance**
Engineering assurance including RAMS aspects (where applicable)

**Assurance Argument**
Provision of an engineering and safety assurance argument which will enable acceptance, commissioning and operation
Funding the asset
Confidence across the asset life cycle
TfNSW Knowledge Centres: Technical disciplines

- Asset Management
- Safety
- Industry Engagement
- Human Factors
- Project Management
- Environment & Sustainability
- Systems Engineering
- Competency
- Quality & Risk
TfNSW Knowledge Centres: Engineering disciplines

- Track
- Civil
- Electrical
- Fleet
- Stations & Buildings
- Telecommunications
- Signalling
Industry engagement – sharing and listening

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| Industry Briefings    | • Updates, awareness and thought leadership  
                      | • Two to four per year  
                      | • Up to 400 attendees |
| Industry Round Tables | • Update, drive change and seek feedback  
                      | • Two to four per year  
                      | • Up to 200 attendees |
| Industry Seminars     | • Educate, train and seek feedback  
                      | • Up to one per discipline (up to 10 total per year)  
                      | • Up to 70 attendees |
| Technical Forums      | • Capture, share and apply knowledge  
                      | • Up to two per discipline (up to 20 total per year)  
                      | • Up to 35 attendees |
ASA industry engagement

SBE16: International High-Performance Built Environments Conference, Sydney
Final thoughts…..the future knowledge economy?

Adapted from Lawton Smith & Leydesdorff, 2014; Figure 2, p4 (Source: Leydesdorff, 2010, p370)
Thank you

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