

## MINUTES

### Roads Australia Capacity and Network Reliability Chapter

Wednesday 2 March 2016

Location: Roads & Maritime Services, 101 Miller Street, NORTH SYDNEY

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#### WELCOME

Dan Reeve, Roads Australia Capacity Chapter Deputy, opened the joint Network Reliability Chapter and Capacity Chapter session supporting Austroads in their efforts to establish a harmonised road asset data standard in Australia New Zealand.

Dan detailed RA member commitment over the past few years to support standardisation and harmonisation to better target investment decisions and to provide greater efficiencies for industry, the tax payer and for the nation's road network.

Recent examples include RA's continued support to the road safety barrier industry and evolving the current standard approach to safety at road worksites.

#### Austroads Project Briefing

Angus Draheim, Austroads Data Harmonisation Project Manager briefed the group on Austroads strategic priority to harmonise road asset data, a vision of Austroads membership since 2014. The Austroads Assets program is continuing to look for improvements in the sector.

Angus discussed the strategic business case Austroads developed in support of a national metadata standard that theoretically showed strong benefits, particularly a positive cost benefit. Benefits highlighted in the business case include benefits to maintenance/investment, internal savings of data collection and data to support national road reform.

Angus briefly described the ongoing process as preparation of a draft standard, ongoing stakeholder consultation, the development of an implementation plan with options, strategies and tools to assist adoption, with an updated business case and an impact statement for local government.

Angus reinforced the focus of the project is on road management and investment. The project will identify key data fields for standardisation to support road management and investment functions across a wide range of organisations including: funders, regulators, grants commissions, government agencies, data suppliers, software vendors etc.

Angus is keen for the project to better understand what is important to public and commercial sector organisations in developing a new standard, the challenges of adoption and how the standard can evolve to best meet business needs.

## SESSION 1

### Overview of Data Standard Fields

Graham Lantzke, Senior Asset Management Engineer at Opus International Consultants led the session describing why the project was initiated and detailed its mission.

The project mission is to identify the data that supports common road management and investment functions. This includes data to support asset management functions, to comply with accounting standards, to enable data analysis by a variety of stakeholders (including government researchers, even the insurance industry) and data for informed decisions.

In feedback sessions around the nation, Graham confirmed that the level of frustration in every sector of the road industry to access and verify quality data in time, is immense. This includes a small rural shire council, as well as, senior executives from the Federal Government. Road asset metadata harmonisation is essential and a 'no brainer'.

Graham discussed the anticipated benefits and outcomes of the project, which included:

- Better understanding of asset performance – better prioritisation of maintenance tasks and resource allocation
- Consistent and comparable asset data to support strategic decisions at micro/macro levels
- Data independent of technology
- Reduced information management costs – across the sector
- Cost savings that can be achieved from:
  - Data system integration projects
  - Data conversion tasks
  - Everyday data Querying, processing and reporting
  - Training

Graham detailed the primary objectives of the standard as:

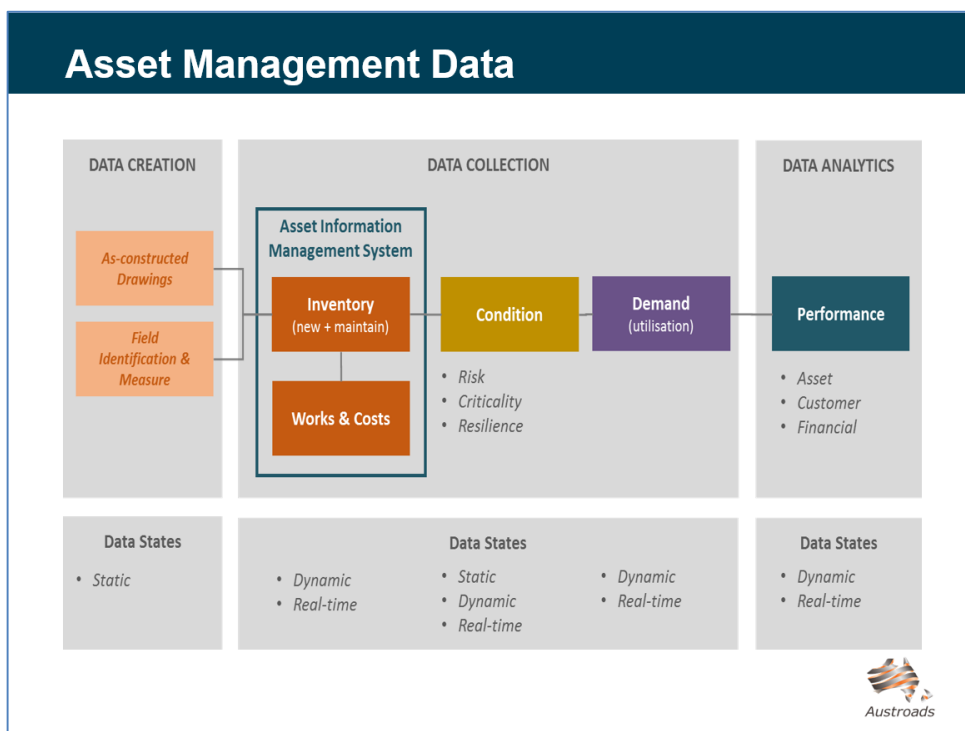
- A common understanding of the meaning of the data (in many cases the same word means many different things! The project will identify the critical data sets that need translating)
- Consistency in data definition and format
- A list of typical data fields that support road management and investment functions
- Data guidance supporting different levels of sophistication in asset management practices
- Detail on harmonised data fields to ensure consistent application.

Road length, a well-known data consistency issue, was illustrated and discussed.

Graham highlighted the difficulty for funding agencies to share maintenance funds if there are discrepancies in the data, and that there is a need for a common standard and common definition to enhance the funding distribution process.

Graham described the current phase of the road asset metadata standard consultation as a process of discovery to better understand how business happens, gather information to identify what is essential and what is not, and to create a community of knowledge. Further workshops will be held to continue to inform the standard.

The short time frame deliberately intends to complete a standard in a timely as possible manner. It supports the view that the standard will be reviewed and modified as a living document and ongoing evolution will occur as the new standard is adopted and implemented. Particularly as the sector is evolving so fast and so dynamically. It acknowledges there is a need to build on continuous improvements over the whole process and beyond.



Graham gave an overview of the data types involved in the standard. These include:

- Classification – Functional priority or Status Level within the Network
- Inventory – Basic information about the asset, location, type and associated attributes
- Condition – Functional performance of an asset in its life cycle. Grading system.
- Performance Asset LOS – Relates condition to levels of service
- Performance Customer – Performance of a route or assets mobility, safety, amenity etc. from end user
- Corridor Access – Factors that affect or limit travel use or behaviour by road users
- Demand – Measurement of current usage, traffic information
- Works and Costs – Physical work effort applied to a network and its cost.

Graham described the data requirements supporting asset management and illustrated what the end use of the data looks like across the sector.

In closing, Graham shared some of the general feedback and specific responses received during the recent stakeholder consultations which included insights on:

- Support for the concept
- Governance
- Different levels of sophistication
- Need for continuous improvement
- Technology agnostic
- Who will pay and resource the standard
- Technical issues such as location referencing 1d, 2d or 3d
- Calculated versus raw data fields,
- Road classification; and
- Data quality and accuracy.

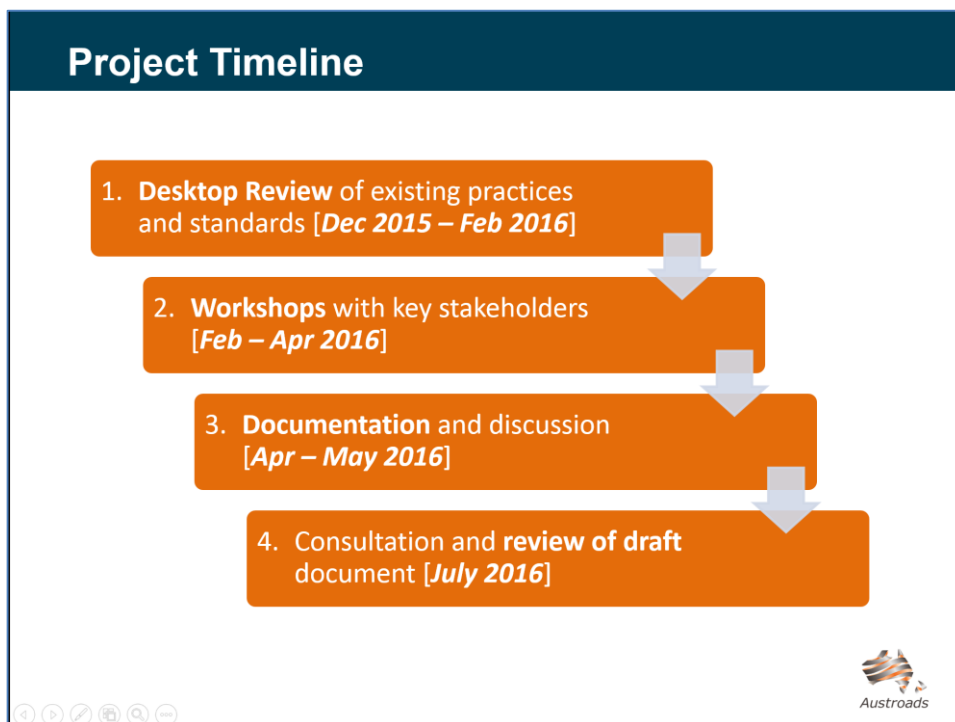
## SESSION 2 Review and Feedback Session

An hour-long feedback session was held covering aspects of the creation, implementation and evolution of the new standard. Key themes during the discussion included:

- Data integrity
- Data ownership
- Effects on current contracting arrangements
- Incorporating a data set for BIM
- Level of engagement throughout the project/process
- Private network owner requirements
- Allowing time (perhaps up to 2 years) to adopt the new standard; and
- Accommodating autonomous vehicles.

### Outcomes and next steps

Though stakeholder response will shape the next phase of consultation, it is anticipated that a second round of workshops may be scheduled from April 2016. Further consultation is scheduled to progress through to May 2016, with a draft standard document due for review from July 2016.



An Austroads Steering Committee, which includes ALGA and the Department of Infrastructure and Regional Development, continue to oversee the project.

**For updates about the road asset metadata standard, visit:**

<http://www.austroads.com.au/road-operations/asset-management/road-data-harmonisation-project>

**Copies of the draft standard and feedback form can be downloaded from:**

- <https://apps.opus.co.nz/austroads/>

## Contact the project team:

- Angus Draheim [angus@adraheim.com.au](mailto:angus@adraheim.com.au)
- Graham Lantzke [graham.Lantzke@opus.com.au](mailto:graham.Lantzke@opus.com.au)

## Conclusion

In closing, Dan Reeve, offered a special thank you to Austroads, Opus and RMS for the opportunity for Roads Australia members to contribute to the standard development.

Dan confirmed the Chapter's ongoing support to the project which looks forwards to hearing how the standard progresses, and how the Chapter can help launch and communicate the result with industry.

## Participants

Organisation	Firstname	Lastname	Role
Acciona Infrastructure	Emily	Larkin	Office & Bid Administrator
Acuitas Tecserv	Rob	Mashford	
AECOM	Henk	Buys	Technical Director – Ground Engineering
AECOM	Dmitriy	Nikolaev	
Aquenta Consulting	Mike	McCloskey	Managing Director
Arcadis Australia Pacific	Syd	Gamble	Senior Technical Director
Arcadis Australia Pacific	Richard	Russell	Principal Engineer
Arup	Ian	Leach	
Arup	David	Thompson	Associarte Principal
Aurecon	Mark	Henaway	
Austroads	David	Francis	Manager, Program Support
Austroads	Angus	Draheim	
Beca	Martin	Kanan	Business Director - Major Projects
BG&E	Andrew	Harrop	Senior Civil Designer
BG&E	Keith	Kim	Senior Civil Engineer
Boylan Group	Alan	Hay	Director Strategic Analysis, Road Safety
Civil Mining and Construction	Kevin	Mills	Business Development Manager
Coffey International	Gord	Stifanyk	Business Development Manager NSW (Rail)
Deleg8	Omar	Faruqi	Director Operations
Deleg8	Khalid	Javed	Director
Dept of Infrastructure, Transport, Regional Development	Mark	Darrough	
Downer Infrastructure	Matthew	Mackie	
Downer Infrastructure	Shane	Pearce	Project Manager, Stabilising
Downer Infrastructure	Nabin	Pradhan	
DownerMouchel	Gavin	Bolton	Asset Maintenance Planning Manager

Organisation	Firstname	Lastname	Role
DownerMouchel	Ralf	Schramm	Asset Information Manager
DURHAM Drainage Products	Charles	Durham	Director/General Manager
Extra Dimension Solutions	Tony	Ingold	
Ferrovial Agroman (Australia)	Javier	Lopez	Business Development Director
Fulton Hogan	David	Paine	National Asset Manager
GHD	Ibrahimi	Farshad	Service Line Leader, Asset Operations
GISSA INTERNATIONAL	Duncan	Brooks	
GRL Consulting	Graeme	Laughton	Managing Director/Owner
Ingal EPS	George	Georgopoulos	
Ingal EPS	Oliver	Tiang	Engineering Manager
Ingal EPS	John	Treacy	Managing Director
Interlink Roads	James	Kao	Asset Engineer
Organisation	Firstname	Lastname	Role
Interlink Roads	John	Lindoy	Asset Planning Manager
Interlink Roads	Phillip	Nott	Assets Manager
Jacobs Group	Steve	Cooley	B&I Asset Manager / Business Manager
John Holland Group	Gary	Pullar	Business Development Manager, Civil NSW/ACT
Kathy Jones & Associates	Penny	Townley	Strategic Communications, Facilitation and Engagement Specialist
Kellogg Brown & Root	Marcus	Moore	Industry Lead - Roads, NSW & ACT
Lendlease	James	Yerbury	National Pre Contracts Manager   Roads   Services
Lendlease Tyco JV	Nik	Aloustani	Asset Engineer
Lendlease Tyco JV	Zoran	Ribicic	
Mouchel Australia	Simon	Berry	Technical Lead - Roads
MWH Global	David	Bell	Transportation General Manager AU/NZ
Opus International	Susan	Chamberlain	Transportation Team leader
Opus International	Greg	Gearin	Business Manager Parramatta
Opus International	Graham	Lantzke	Senior Asset Management Engineer
Opus International	Melvyn	Maylin	Managing Director, Australia
Opus International	Hugh	Tait	Sector Leader Transportation Asset Development Australia
Roads and Maritime Services	Gary	Rykers	
Roads and Maritime Services	Jo	Attanasio	
Roads and Maritime Services	Chris	Harrison	General Manager
Roads and Maritime Services	Majed	Odeh	
Roads and Maritime Services	Siva	Perumynar	

Organisation	Firstname	Lastname	Role
Roads and Maritime Services	Vachchiravetkumaran (Kumar)	Ponnampalam	Senior Bridge Engineer Technology & Practice
Roads and Maritime Services	Harinder	Saluja	
Roads and Maritime Services	Peter	Williams	
Roads Australia	Mandi	Dorhout Mees	National Policy Manager
SMEC Australia	Roy	Bartlett	
SMEC Australia	Dan	Reeve	General Manager   Transport
Sydney Motorway Corporation	Gunhan	Guven	
Sydney Motorway Corporation	Peter	Walters	
Texo	Stuart	Neilson	
Transport for NSW	Jim	Chen	
Transport for NSW	Ian	Gould	Senior Policy Officer
Transport for NSW	Daniel	Kicuroski	
Transport for NSW	Simon	Vaux	Acting Principal Manager Engineering
Transport Simulation Systems	Timothy	Lim	Civil Engineering
Transport Simulation Systems	Alex	Torday	Managing Director
Transurban	Tim	Barclay	Asset Management System Engineer Graduate
Ventia	Babak	Bigdeli	Lead Asset Management
Ventia	Michael	Bushby	General Manager - Assets & Infrastructure Services
Ventia	Russell	Gow	Asset Management Engineer
Ventia	Nadir	Hashmi	
Ventia, Boral, Amey JV	Andy	McCarthur	Asset Stewardship Manager
Ventia, Boral, Amey JV	Elliot	McRobert	Asset Engineer
Ventia, Boral, Amey JV	Alex	Posthuma	Database Analyst
Westlink M7	Glenn	Archibald	
WSP Parsons Brinckerhoff	Lilanthi	Balasingham	
WSP Parsons Brinckerhoff	Mike	Rogers	Senior Civil Engineer
WT Partnership	Rodrigo	Martinez	
Yotta	Ian	McLean	Sales Director Australasia
	Stephen	Baker	
	Nicolas	Gombault	
	John	Morandini	Retired member

For more information about the Roads Australia Capacity Chapter, contact Roads Australia on 03 9821 5255.