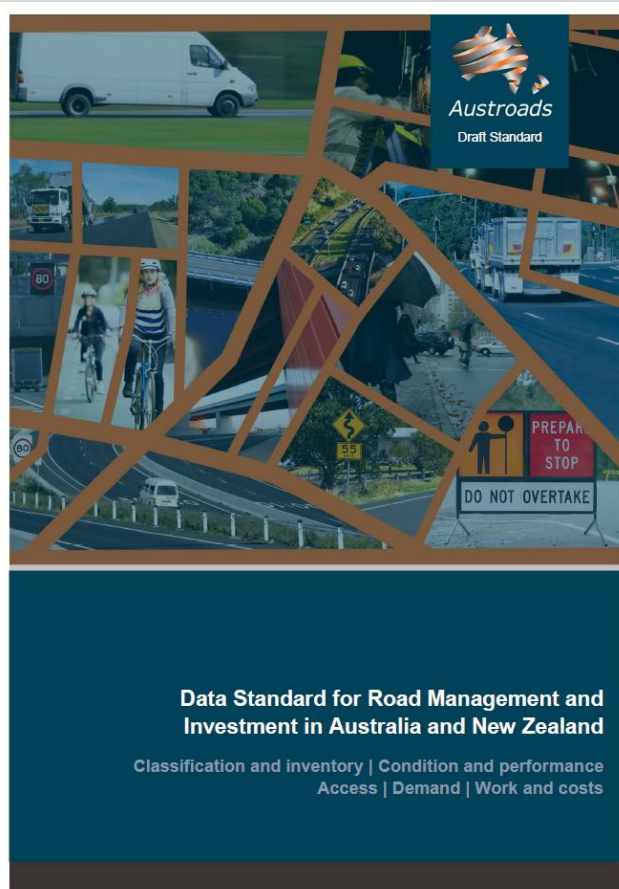


Austrroads Harmonising Asset Data Standards

An overview



Infrastructure Resilience

Traditional Engineering Resilience Disciplines:

- Environmental
- Geotechnical
- Civil

The Future:

- Electronic / Digital

Presentation Plan

1. Project History
2. The Value of Data
3. Data Standards
4. The Value of Road Data Standards to New Zealand

REG Connections

Road Maintenance Task Force (2012)



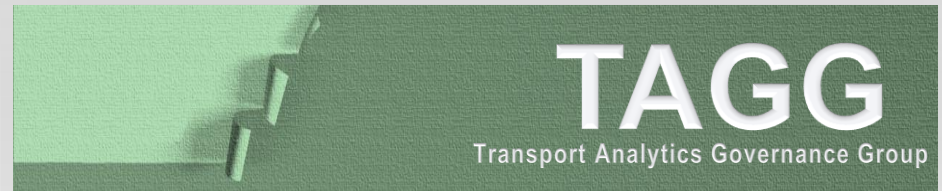
Road Efficiency Group (2013)

Sponsored by LGNZ, RCA
Forum and NZ Transport Agency

Acknowledge work to date by TAGG - Auckland Transport, Christchurch City Council, Wellington City Council and NZ Transport Agency

Transport Analytics Governance Group (TAGG) work

Participants:



Metadata Standards for Roading in NZ

RMTF Recommendation 8: Review existing data acquisition methods and standards and compile a **nationally consistent data** acquisition, performance measurement, benchmarking and management framework that will support enhanced road asset management and sound investment decision-making, monitoring of outcomes and continuous improvement, as an element of the national asset management framework.

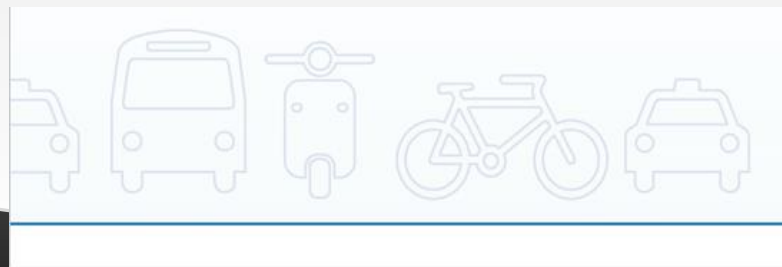
Austrroads & Road Efficiency Group (REG)

Why is REG supporting this metadata project?

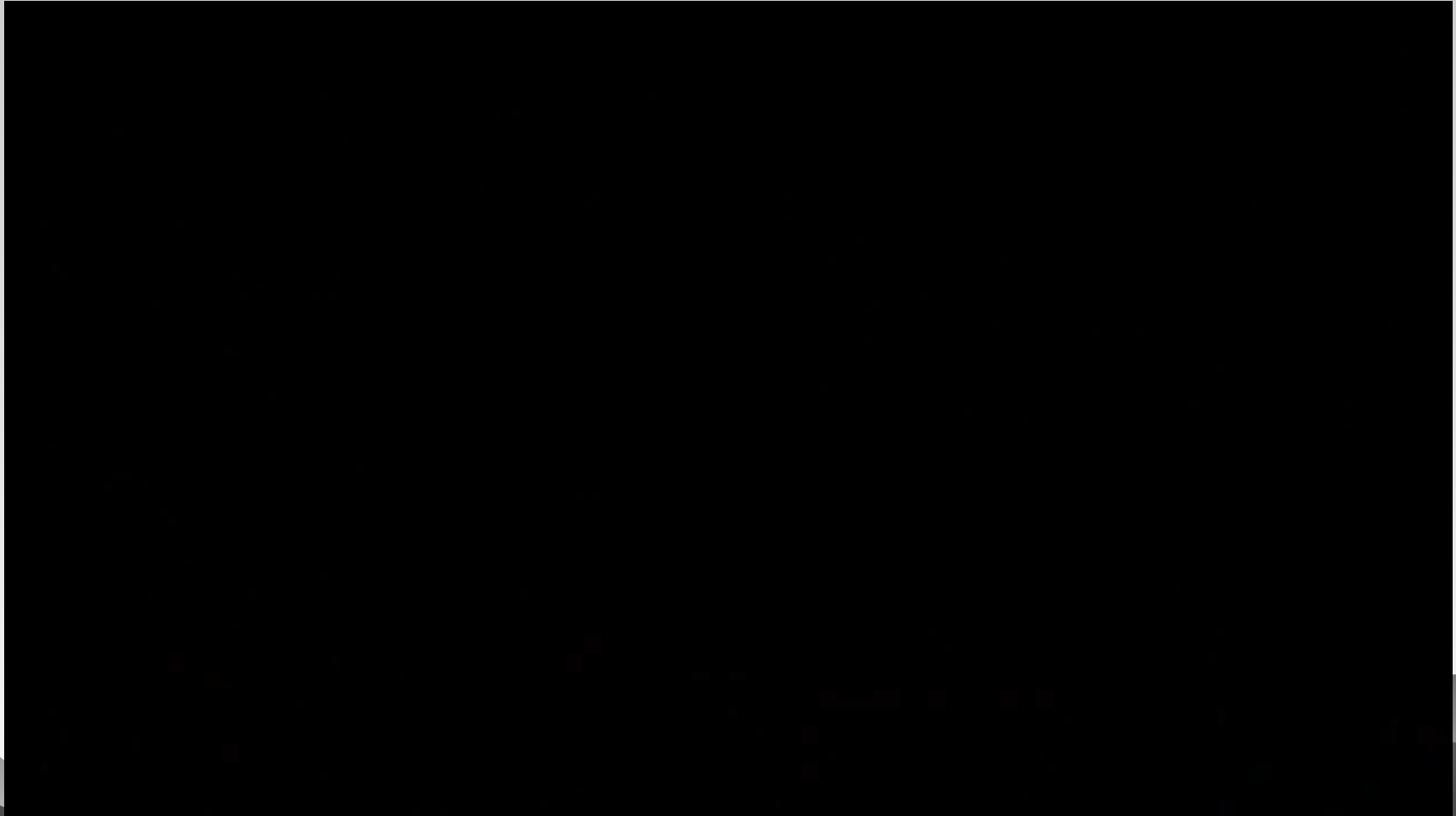


Meta data is seen as a key to:

- ❖ unlocking efficiencies in data management,
- ❖ Supporting transport analytics,
- ❖ And effective investment decision making



The Value of Data Quality



The Value of Data

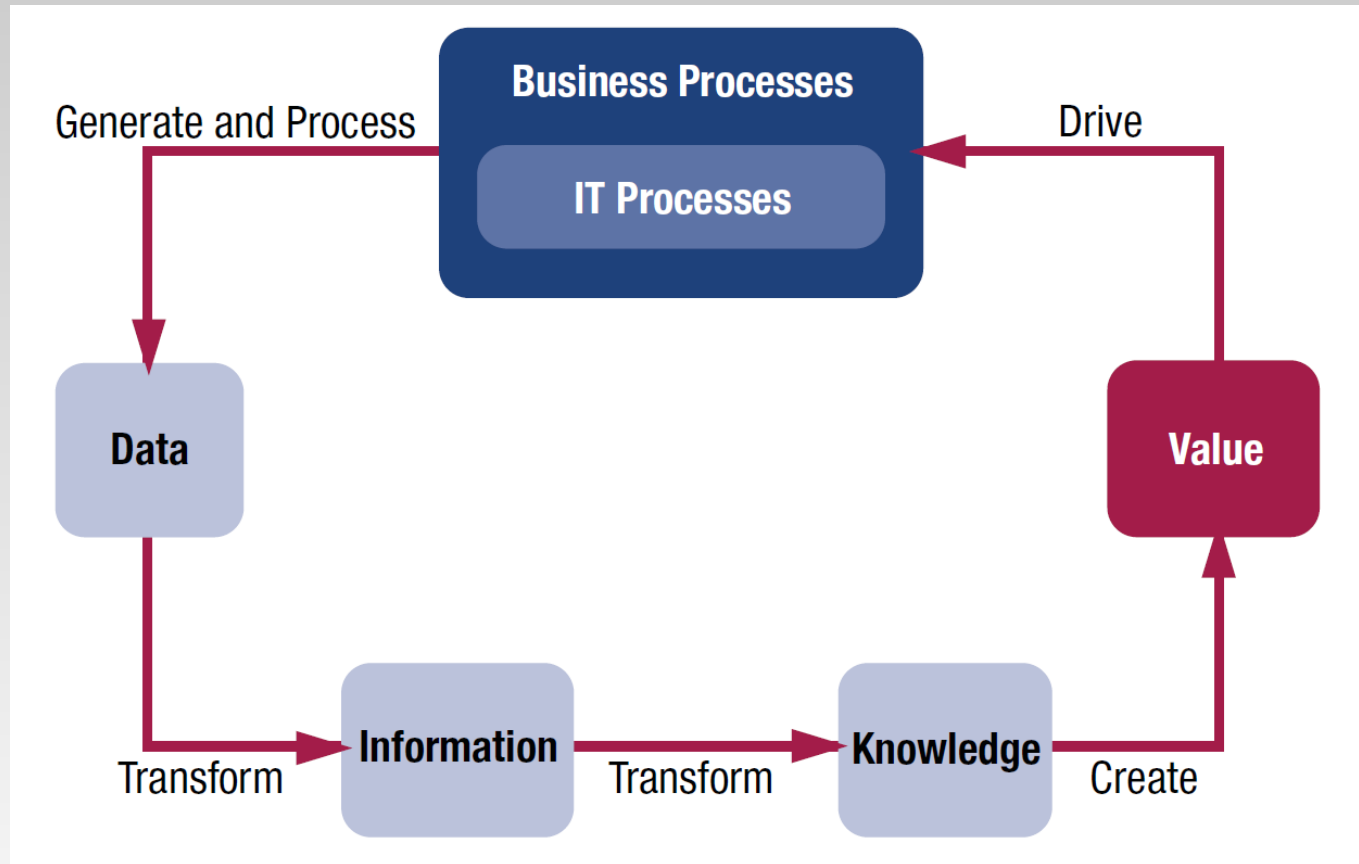
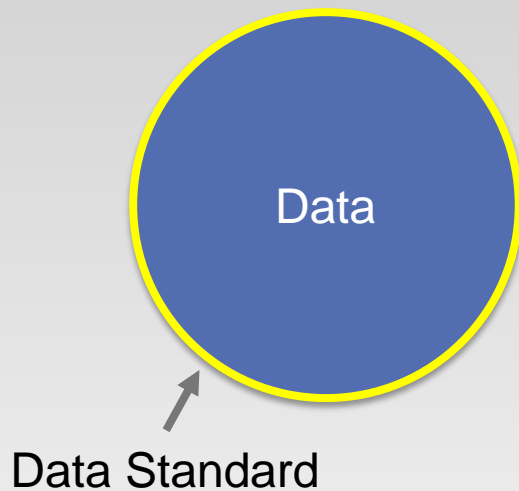


Figure 35 - COBIT 5 Metadata - Information Cycle
COBIT 5 Framework (c) 2012 ISACA

Data Standard Definition



- Context-setting information about data
- Sets boundaries/ parameters for expected data values
- Defines the “ingredients” for success.

Austroads Data Standard Project



- Austroads harmonised road asset data standard will support improved road management and investment decisions.
- Harmonised standard:
 - Certain data fields are value generating for everyone
 - Make it easier for all to know how to align
 - Offers different levels of sophistication

Austrads Data Standard Project



Harmonising Data Categories

- Inventory
- Works and Costs
- Demand
- Condition
- Infrastructure Performance
- Access
- Classification
- Customer Levels of Service

Harmonised Data Objectives

- **road research**, improve understanding of best practices for road maintenance and renewal activities;
- **expenditure comparisons**, to allow for improvements in operational practices to achieve better 'bang-for-buck' (i.e., benchmarking);
- **funding approvals and reporting**, to ensure that funds are targeted appropriately
- **policy development**, to facilitate reforms

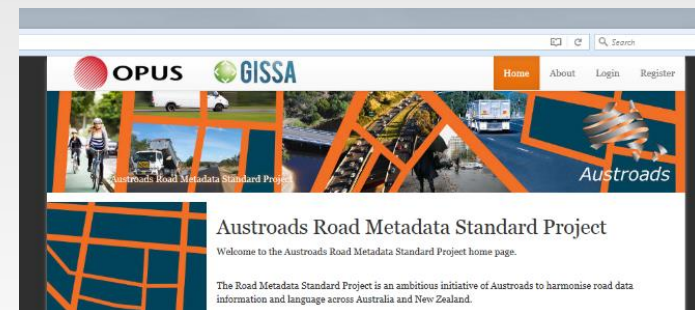
Value for New Zealand Adopters

- Visibility / Transparency
- Consistency
- Collaboration
- Order
- Strength and quality of decisions

Compelling Business Case

- Business Case and Impact Statements completed by end of June 2015
- Consultation through:
 - Australasian Workshops
 - Stakeholder Survey (due for release in late March)
 - Direct Feedback

<http://apps.opus.co.nz/austroads/>



Moving Forward – What will it look like

- Implementation Plan under development
- Data Standard released in July 2015
- Technology and stakeholder adoption, then...



Questions???