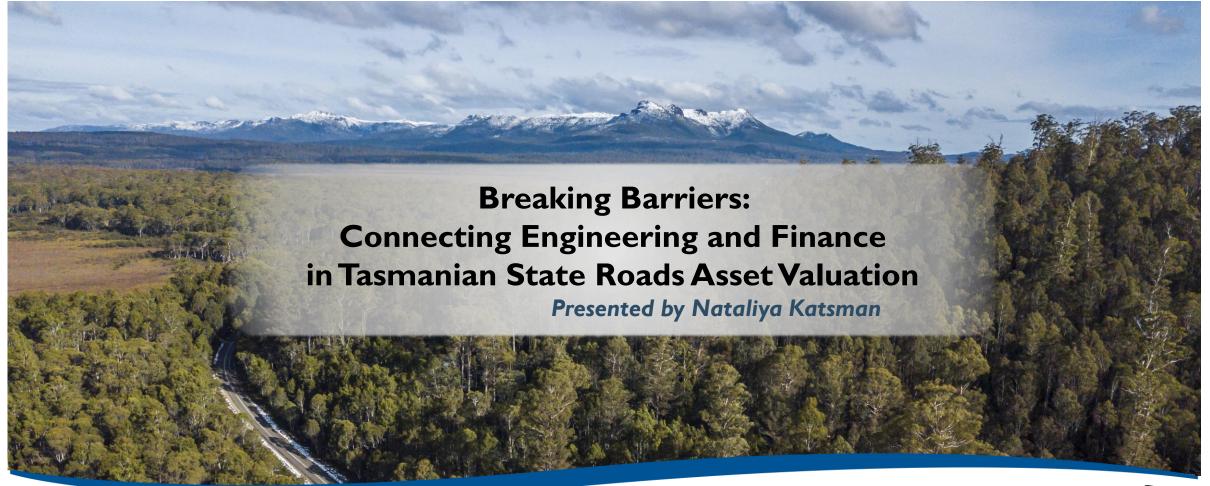
IPWEA Conference, Hobart 27 August, 2019

State Roads Asset Valuation





Why change?

- Report of Auditor General 2013-14 Better understanding of road components and their useful lives
- Forward Looking Cost Base (FLCB) modelling data requests, 2017-2018
- Austroads Minimum Levels of Componentisation for Road Infrastructure Assets: Guideline, 2018
- Austroads Data Standard for Road Management and Investment, 2018
- Draft of **ISO 55010** "Asset management Guidance on the alignment of financial and non-financial functions in asset management", 2018





State Road Network

- 3,775 km of road (of a total 24,000 km road network in Tasmania), over 1300 major structures and various other supporting infrastructure
- \$5.4 billion more than a quarter of \$19.8 billion total TAS government assets reported in 2019

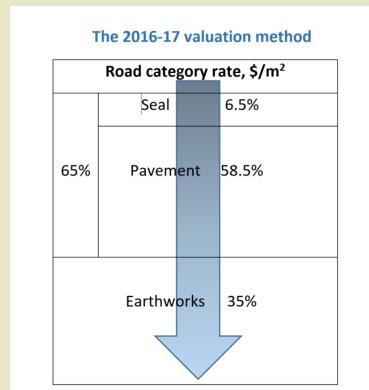


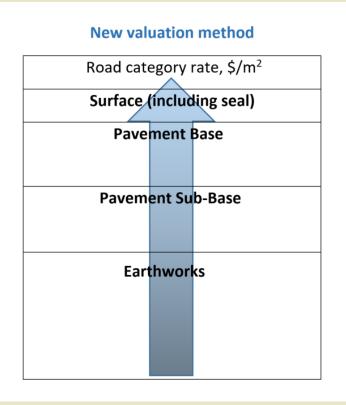
Valuation Scope

Roads:

- Seal
- Pavement base
- Pavement sub-base
- Earthworks

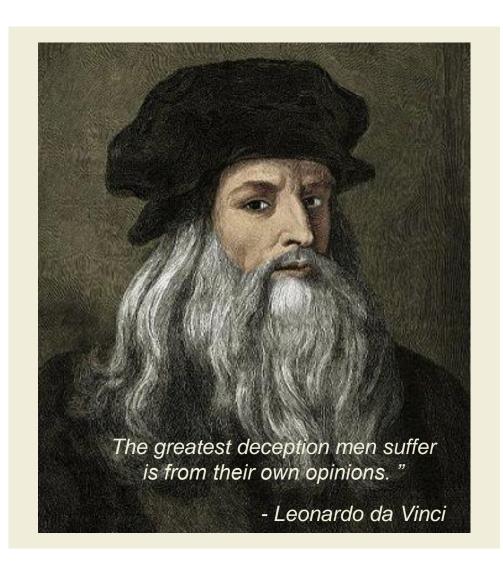
Valuation Method





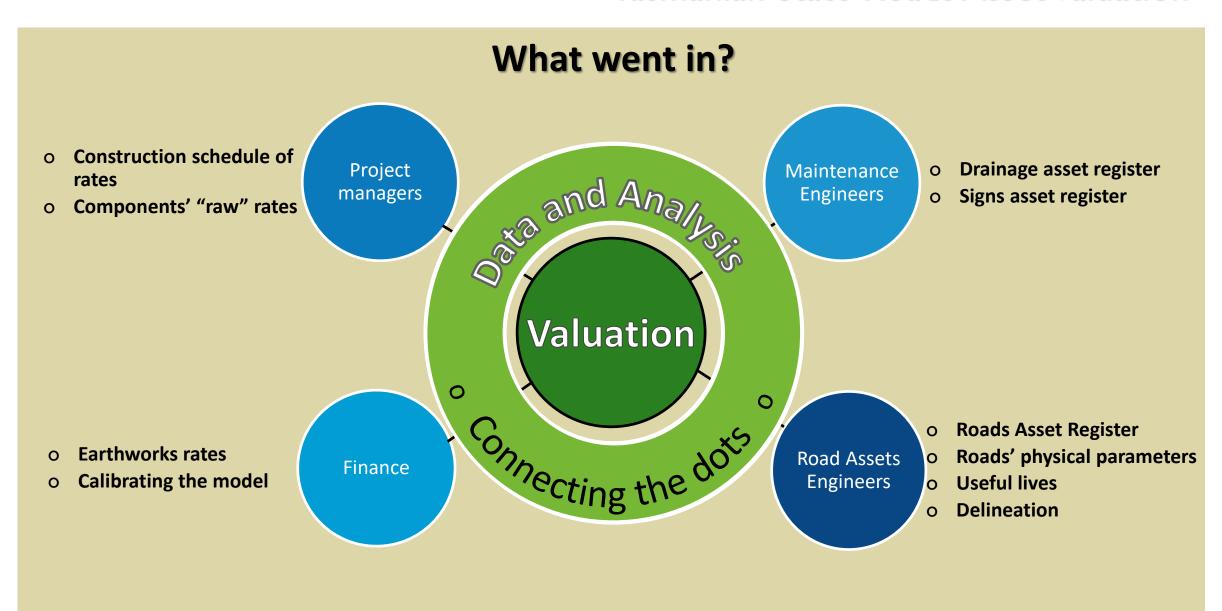
Stages of asset valuation:

- Understanding our data inventory and managing metadata;
- Improving accuracy and reliability of road asset components data sets;
- Integrating data sets into a system that facilitates insights to improve asset management and policy making outcomes;
- Adding perspective through sharing data and communicating insights to the public and a broad range of stakeholders.



Our challenges:

- Authoritative source of truth for valuation;
- Awareness and disclosure of what we don't have or know;
- Diversity of asset management challenges should be represented in our data;
- Gap between finance and engineering viewpoints.



SO WHAT'S IN THE RATE?

		Class					
Components		1	2	3	4	5	5us
Seal		17.57	14.09	14.51	12.89	11.65	5.9
	Seal	10	10	10	10	10	5
	Contigency +Traffic management	2	1.5	1.5	1	0.8	0.8
	Asphalt	2.37	0.59	1.51	0.89	0.55	
	Signs	1.2	0.8	0.6	0.5	0.2	0.1
	Delineation	2	1.2	0.9	0.5	0.1	
Base		26.5	23	17.85	15.45	12.175	12.175
	Pavement base	15	15	11.25	11.25	9.375	9.375
	Contigency +Traffic management	4	2.5	1.8	1.5	0.8	0.8
	Safety Barriers	2.5	1.5	0.8	0.5		
	Lighting	2	1	1	0.2		
	Table Drains	3	3	3.00	2	2	2
Sub-Base		70.8	52.45	51.3	38.1	30.6	25.8
	Pavement Sub-base	21	15	15	12	12	12
	Contigency +Traffic management	2	1.5	1.5	1	0.8	0.8
	Kerb and Gutter	7.5	1.5	4	2.1	0.8	
	Pits	12	10	10	5	3	2
	Minor Culverts	28.3	24.45	20.8	18	14	11
Earthworks		60.16	51.01	47.44	43.30	33.09	33.09
	Total Rate per sq.m	175.03	140.55	131.10	109.74	87.51	76.96
	2016/17 rates	172	146	136	124	95	95
	2010/17 Tales	1/2	140	130	124	95	

Rates for components that are not reported individually were aggregated into the reported categories based on:

- 1. Total value/quantity of a road asset component
- 2. Split of that asset component between different road categories
- 3. How does the rate affect total valuation



Want to get funding?

Get your data ready and help it to become part of the valuation. Put the price tag on your asset!

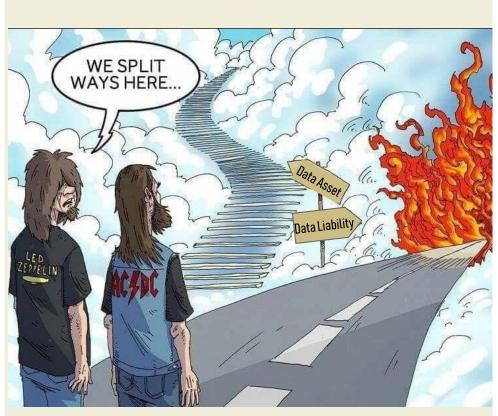


Image source: https://www.flickr.com/photos/imagenesalviento/20606503748

Is our road data an asset or a liability?

- An asset is an economic resource that can be owned or controlled, and that holds or produces value
- A *liability* is a legal financial *debt or obligation* that arise during the course of business operations.

Treating data as an asset

- not only recognizes the costs of data management but acknowledges the value it creates;
- adds flexibility and adaptability in a fast changing infrastructure environment

Stairway to digital



- Importance of culture where data is seen as an asset. Data (as any technology) for its own sake is a waste of time.
- Culture is strategical axis, skills operational. Only a balanced progress in both areas leads to success.
- Data is an essential part of an organisation's people, systems and processes
- Benefits of fit for purpose data to better servicing our customers as well as for communications with broader stakeholders.
- Treating data as an asset requires leadership and commitment on every level of an organisation.

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