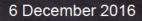
Aurizon Network

This document contains Commercial in Confidence information.



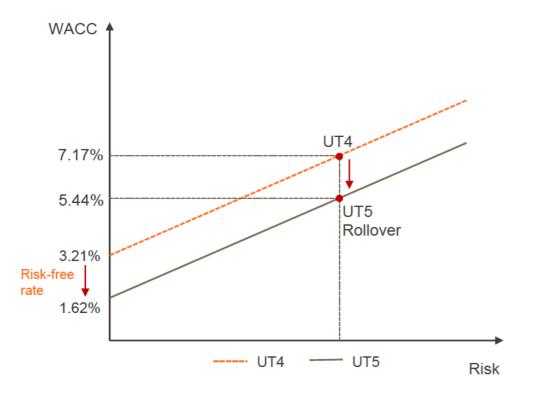


Consistent with the QCA Act we are seeking "a return on investment commensurate with the regulatory and commercial risks involved"

NOT A REGULATED UTILITY	 Relatively small number of customers, exposed to a single asset class (coal) Volatile operating environment, including increased counterparty risk and longer term structural issues with regard to future demand of thermal coal Fragmentation of the Regulated Asset Base (RAB) by system increasing the risk of asset stranding Revenue deferrals which result in expansion capital being excluded from the RAB e.g. approximately \$260m of Wiggins Island Rail Project (WIRP) related capex 					
REAL WORLD EMPIRICAL EVIDENCE	 Aurizon Network is perceived by the rating agencies as having a higher business risk and thus requires a higher credit metrics (e.g., FFO/Debt) to maintain the same BBB+ credit rating 		Aurizon Network	Utilities		
			>13%	>7%-8%		



QCA's WACC methodology does not deliver a return commensurate with Aurizon Network's risk profile



- In UT4, we believe that the QCA delivered a return lower than Aurizon Network's risk profile
- However, if the UT4 WACC of 7.17% is rolled over in UT5, an even lower WACC of 5.44% is implied
 - Mathematically driven result because of the reduction in risk-free rate
- WACC @ 5.44%
 - Is inconsistent with investor expectation
 - Widens the gap between the QCA WACC and the appropriate return commensurate with Aurizon Network's true risk profile
- WACC @ 5.44% also relies on a strong assumption of excess (equity) returns held constant
- Cost of equity that declines 1-to-1 with the risk-free rate is highly implausible
- Aurizon Network believes its true risk profile (β) is greater than the QCA's UT4 decision



We believe that a different approach by the QCA on 3 of the WACC parameters will drive a return closer to Aurizon Network's risk profile

Regulator	MRP	Risk free rate		Distribution Rate	
	Siegel	Term matching	Long term	FAB data	
QCA	~	✓	x	x	
NZCC	~	✓	x	n/a	
AER	x	X	~	✓	
ACCC	x	X	~	✓	
IPART	x	X	~	✓	
ERA*	x	X	~	✓	
ESCSA	x	x	~	✓	
ESC	x	X	~	✓	
UK Regulators (e.g., Ofgem)	X	x	~	n/a	
US Regulators (e.g., STB)	X	x	~	n/a	

* The ERA does not use term matching for rail but does for energy



- Siegel approach is one of the four methods used by the QCA to determine the MRP
- Siegel approach disregarded by all other Australian regulators and most international regulators

Risk free rate

- The QCA aligns risk-free rate term with Aurizon Network's regulatory cycle (4-year) to satisfy the theoretical NPV=0 principle
- Risk free rate aligned to the regulatory term is unique to the QCA and NZCC
- The QCA is the only regulator that uses different risk-free rate terms in the CAPM model

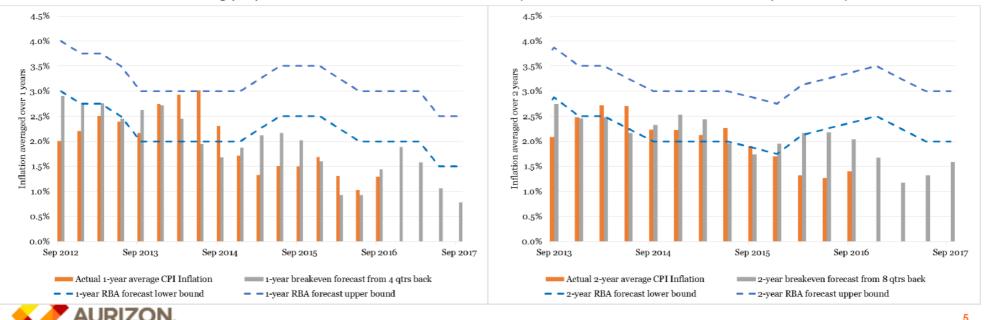
Distribution rate

- As acknowledged by the Tribunal, estimating distribution rate using FAB data is not contentious among regulators
- The QCA is an outlier among regulators to use the ASX 20 firm approach which inflates distribution rate due to the existence of foreign tax



Aurizon Network's inflation forecast methodology

- · Maintaining the current QCA approach of an inflation forecast of 2.5% is inconsistent with current market expectation and will undercompensate Aurizon Network
- The QCA has recognised the issue of inflation forecast in the DBCT Final Decision and decided to adopt the geometric average of RBA short-term forecast and the mid-point of the RBA inflation target range (2.5%)
- However, Aurizon Network believes the breakeven inflation forecast (the difference between the nominal and indexed 4 year government bond) provides a better inflation forecast than the RBA short-term forecast
 - It is a market based methodology and consistent with cost of capital build-up
 - It reflects the weighted average of all possible future outcomes, while the RBA method relies on strong assumption that ۲ inflation will revert back to 2.5% after the RBA's short-term forecast horizon (2-year)



It has better forecasting properties than RBA short-term forecast (less biased and lower root mean square error) ۲

Commercial in Confidence

Appendix

Aurizon Network's WACC Proposal

	Aurizon Network		Key Points	
	UT4 FD	UT5 Proposal		
Averaging Period	20-day to 31 Oct 2013	Placeholder	N/A	
Term of Risk-free Rate	4-year	10-year	 Consistent with both domestic and international regulators Consistent with commercial valuation experts expectations Unrealistic assumption of asset value certainty at the end of regulatory period 	
Risk-free Rate	3.21%	2.13%	 Except term, consistent with UT4 approach based upon 20 day averaging period of Commonwealth government securities 	
MRP	6.5%	7.0%	 MRP weights applied by QCA remain unclear The QCA has consistently applied the same MRP. AN assumes that there is negligible weight applied to those approaches that are sensitive to market movements. Understates the return on equity and implies a 1 for 1 relationship with the risk free rate 	
Asset Beta	0.45	0.55	 Comparator companies has been expanded to include international entities with similar characteristics and are regulated. 	
Equity Beta	0.8	1.0	 Revenue protection mechanism only cover for the regulatory period, not the economic life of the asset Does not address risks such as RAB fragmentation (system and traction choice), volume risk through QCA revenue deferrals 	
Gearing	55%	55%	No change	
Cost of Equity	8.41%	9.13%	 The return demanded by the market is materially higher than the market return calculated through the mechanistic application of the QCA's CAPM Model The QCA CAPM model has underestimated the market return by 120bps Over the past 4 years (2012-2015) the differential has grown and averaged 173bps, primarily driven by the decline in the RFR to a historical low and lack of material offset from the MRP 	
Credit Rating	BBB+	BBB+	• Credit ratings agency's have reviewed credit ratings with a view to downgrade coal export related infrastructure. Rating agencies link the riskiness of the business to the industry and its customers.	



6

Commercial in Confidence

Aurizon Network's WACC Proposal

Aurizon Network Key Points UT4 FD **UT5** Proposal **Total Debt Margin** Inclusion of the pooled regression model in line with DBCT decision Inclusion of foreign bonds issued by Australian entities which is consistent with • 2.94% 2.732% Aurizon Network commercial approach Inclusion of currency and interest rate swap costs • A BBB+/Baa1 credit rating is required by the business to efficiently and effectively Cost of Debt obtain debt financing in the domestic and International Market Debt Financiers are attuned to the Coal Industry exposure 6.15% 4.86% • Size, tenure and diversification necessitates Aurizon Network sourcing from international markets, therefore the debt allowance should provide compensation for these attributes. Maintained a consistent approach by using the ATO Data (Franking Account) Gamma Balance). 0.47 0.25 Address the issues associated with Lally's approach which includes consideration to firms with foreign income • Alignment to market conditions and not a theoretical model. Post-tax Nominal WACC 7.17% 6.78%



7

Commercial in Confidence