### February 2021

# Aurizon Operations Limited – Debt Investor Presentation

acceler.

George Lippiatt – CFO & Group Executive Strategy Chris Vagg – Head of Investor Relations & Group Treasurer



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### Presenters





George Lippiatt CFO & Group Executive Strategy

George was appointed Chief Financial Officer and Group Executive Strategy in June 2020.

He has been with Aurizon for seven years in a number of roles, most recently as Head of Strategy and Corporate Development. In this position he has played a key role in a number of major strategic reviews, transactions, structural changes and transformation programs.

George has fifteen years' experience in corporate finance, strategy and sustainability and prior to joining Aurizon gained extensive infrastructure and finance experience at KPMG and Suncorp Bank.

George holds a Bachelor of Commerce, is a Chartered Financial Analyst (CFA) Charterholder and a Certified Practising Accountant (CPA).



Chris Vagg Head of Investor Relations & Group Treasurer

Chris has more than 20 years' experience in the finance industry in both Australia and the United Kingdom.

For nine years, Chris has been in the Investor Relations team at Aurizon, building capability within the function since the Company listed on the ASX in November 2010.

During this time Chris has played a critical role in engaging with the investment community and articulating Aurizon's investment proposition.

Since July 2017, Chris has assumed responsibility for Aurizon's treasury and insurance functions.

Prior to his appointment at Aurizon, Chris worked for seven years as a sell side analyst for Citi in London and Sydney after commencing his career as a chartered accountant.



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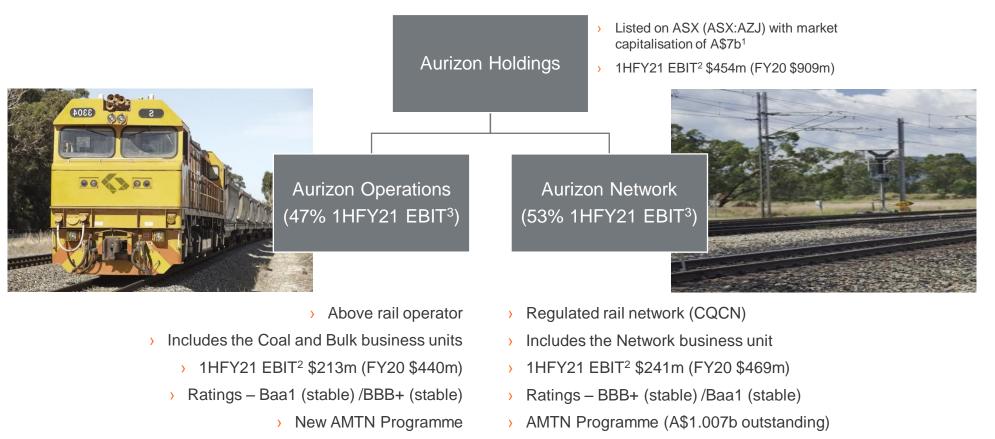


1. Aurizon Holdings Overview



### **Aurizon Holdings Overview**

Aurizon has standalone business units for Aurizon Operations and Aurizon Network with independent credit ratings

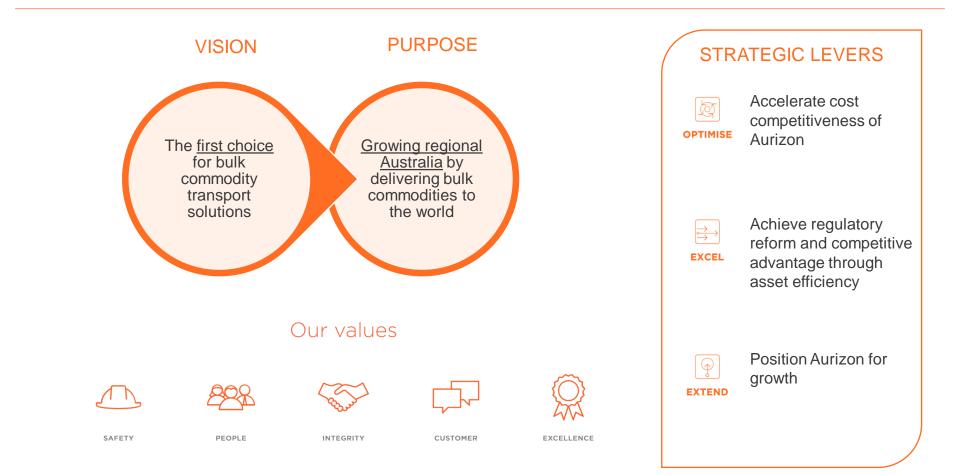


> EMTN Programme (EUR1.0b outstanding)



### Aurizon's Vision, Purpose, Values and Strategic Levers

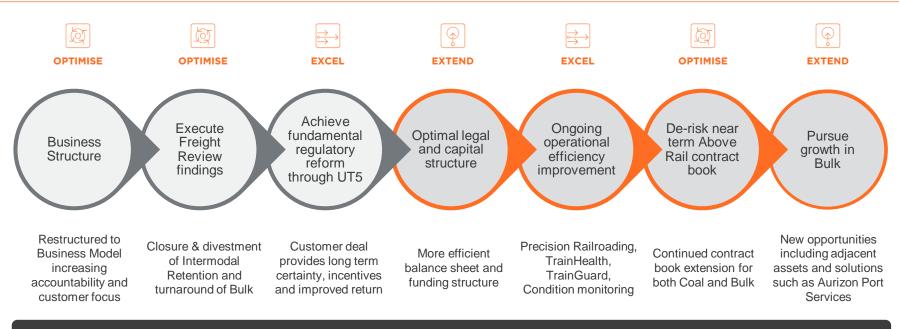
Execution against the three strategic levers is aimed at driving differentiation, competitive advantage and sustainable performance





### **Execution of Deliverables**

Major achievements continue to be aligned with Aurizon's three strategic levers



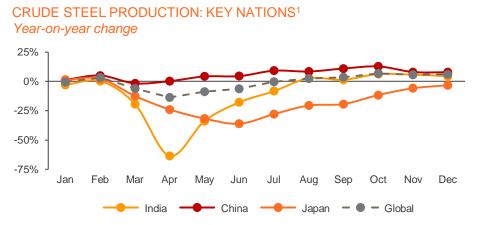
#### Delivered through an integrated structure





## COVID-19 / Coal – Market Update

Although steel production has resumed to a pre-COVID level, a challenging trade environment with China is impacting near term export volume





- Global steel production Returned to pre-COVID levels, including record crude steel production in China for 2020 (1.05 billion tonnes)
- China trade environment is challenged Australian total coal export volume to China was down by 18mt (-79%) in the December quarter with 53 vessels<sup>3</sup> holding Australian coal remain off the coast of China
- Alternative export destinations have been found However it has not completely offset the negative impact, with 10mt being redirected to markets outside China
- Fundamentals of Australian coal Despite longer-term expectation that China's participation in seaborne markets will reduce, export growth of ~1% per annum over next decade is supported by:
  - > Steel-intensive growth in India
  - Prolonged coal-fired generation driven by a relatively young existing fleet in Asia



## 2. ESG



### **Sustainability**

### 2020 was the fourth year of TCFD for Aurizon

#### **Reporting Approach**

- Aurizon takes a direct approach to reporting environmental, social and governance (ESG) disclosures with the publication of the annual Sustainability Report
- In September 2020, Australian Council of Superannuation Investors (ACSI) rated Aurizon's ESG disclosures as *Leading* for the sixth consecutive year
- As at December 2020, Aurizon participates in FTSE4Good Index Series, MSCI ESG Ratings and Sustainalytics
- During 2020, Aurizon released its first Modern Slavery Statement and Climate Strategy & Action Plan
- Aurizon's FY2020 Sustainability Report was released in October 2020 and highlights our continued commitment to building a strong performing business that operates responsibly, and is available on Aurizon's website<sup>2</sup>



We report against the Task Force on Climate-related Financial Disclosures (TCFD) as recommended by the Financial Stability Board (FSB)



FTSE4Good

Aurizon Holdings remains a member of the FTSE4Good Index following the June 2020 index review



as at March 2020

ESG rating of "Medium Risk" as at April 2020

SUSTAINALYTICS



## **Benefits of Rail Freight**

Aurizon continues to advocate for the significant role that rail contributes in the transition to a lowcarbon economy



ESG

#### **Rail Freight Policy**

- Our aim is to ensure that rail freight remains competitive and part of the solution as the economy transitions to a lowcarbon future
- We advocate for policy actions to increase the use of rail freight on key national freight corridors, recognising the broader environmental, social and safety benefits

#### Benefits of Rail Freight

- > Environment: Road freight produces 16 times as much carbon pollution as rail freight per tonne kilometre<sup>1</sup>.
- Safety: Rail transport is a far safer mode of transport than road, with the freight volume carried by one freight train equivalent to the volume carried by 150 semi-trailer trucks<sup>2</sup>. Over the course of a year, the freight task carried by one train removes the need for thousands of truck journeys on our roads, reducing congestion and improving safety.
- > Productivity: Significant economic and productivity gains are achievable where there are large volumes of freight and/or where the freight is carried over longer distances.



## **Climate Strategy and Action Plan**

ESG

Aurizon is committed to a long-term target of net-zero operational emissions (scope 1 and 2) by 2050 through our Climate Strategy and Action Plan



We will continue to assess and enhance our processes for managing climate-related risk and leverage opportunities by:

- Continuing to use scenario analysis to consider transition risks over short-, medium- and long-term time horizons
- Continuing to enhance our capability to assess physical risk to key assets and operations
- > Embedding consideration of climate-related risk into risk frameworks and investment standards.

Achieving our operational decarbonisation goals will be driven by:

- Achieving a short-term target to reduce greenhouse gas emissions intensity by 10% by 2030<sup>1</sup>
- > Establishing the \$50m Future Fleet Fund<sup>2</sup>
- Implementing our Tracking Towards Net-Zero Operational Emissions initiatives (outlined on the following slide)
- > Establishing partnerships and forums for customer and industry collaboration
- > Continuing advocacy for the significant role that rail contributes in the transition to a low-carbon economy.

Our commitment to integrating carbon-neutral and carbon-negative solutions has been incorporated into our *Tracking Towards Net-Zero Operational Emissions* initiatives, and will prioritise:

- Cost-effective renewable energy to augment supply to our electrified rail infrastructure and real estate portfolio
- > High-quality, credible, verified and co-beneficial carbon offset portfolio development.



## Climate Strategy and Action Plan

We are driving operational decarbonisation through our *Tracking Towards Net-Zero Operational Emissions* initiatives with 20% emissions intensity reduction achieved since 2010

### 2020-2030

Climate Strategy and Action Plan Implementation

#### Minimising our Operational Emissions

 Map and refine our operational decarbonisation pathway in line with our target of net-zero operational emissions by 2050



#### Electricity Consumption on Aurizon's Electrified Network Infrastructure

 Leverage existing energy efficiency capabilities and assets, such as electrified rail in the Central Queensland Coal Network



#### Partnerships and Collaboration

 Pursue partnerships and create forums for collaboration to lead a step change towards decarbonisation of the Australian freight sector

### 2030-2050

Technology Pathway



#### Technology Investment Through the Future Fleet Fund

Invest in the development and adaptation of low-carbon technologies for the Australian rail-freight sector through the \$50m Future Fleet Fund



### Renewable Energy

Explore opportunities to integrate renewable energy into our current energy mix through direct investment in projects, power purchase agreements and/or behind-themeter solutions

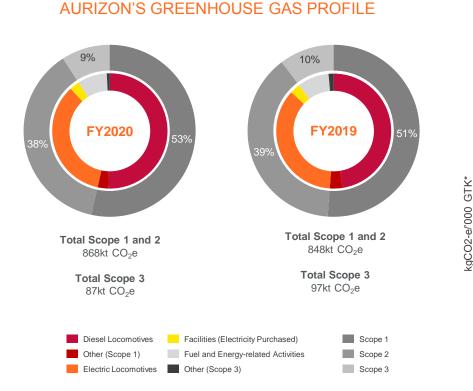
### Carbon Offsets

Utilise carbon offsets through project development/ investment and/or purchase, where required, and prioritise offsets with environmental and social co-benefits

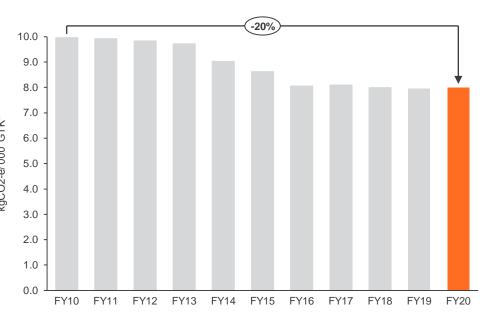


### **Climate Strategy and Action Plan**

The majority of our emissions are associated with the consumption of energy (fuel and electricity) in the day-to-day operation of our locomotive fleet



#### AURIZON'S LOCOMOTIVE EMISSIONS INTENSITY PERFORMANCE



\*GTK = Gross Tonne Kilometres.

Note: Aurizon's Scope 1 and 2 emissions are reported in accordance with the National Greenhouse and Energy Reporting legislation. The increase in Scope 1 and 2 emissions in FY2020 was driven by moderately higher output in FY2020, and increased gridbased electricity emissions factors in Queensland.

Aurizon's identification of relevant Scope 3 emissions activity sources is informed by the GHG Protocol Corporate Value Chain (Scope 3) Standard and includes: purchased goods and services (paper purchased and water consumption), capital goods, fuel and energy-related activities (including consumption and upstream transportation and distribution), waste generated in operations, business travel (air and ground-based travel and accommodation), employee commuting, and upstream leased assets. The reporting boundary for the Scope 3 emissions data for the FY2020 period includes the categories listed above, with the remaining activity sources excluded due to current data availability issues. Scope 3 emissions from employee commuting, which represent ~4% of the total reported Scope 3 emissions, have been excluded from the limited assurance over this dataset, however will be considered for inclusion in future reporting period once the methodology for calculation has been strengthened/formalised. A breakdown of Aurizon's emissions is provided in the 2020 Sustainability Report.

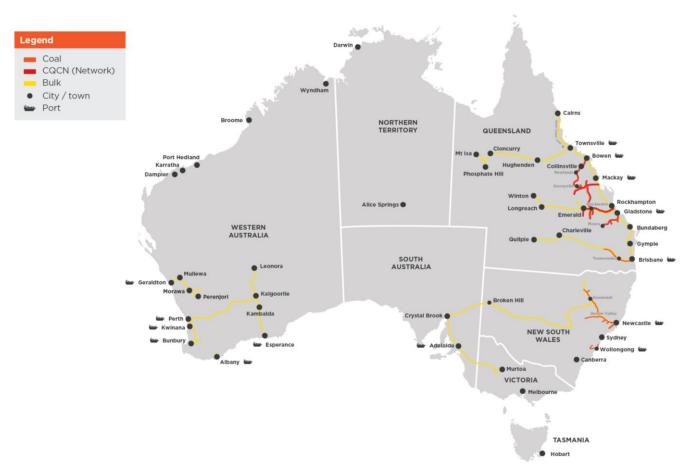


3. Aurizon Operations Overview



### **Key Operational and Financial Statistics**

Australia's largest rail freight operator transporting over 250 million tonnes of commodities, connecting miners, primary producers and industry with international and domestic markets



EBIT: \$213m<sup>1</sup> (FY20 \$440m) Tonnes Hauled: 128mt Active Locomotives: 505 Active Wagons: 11,883 Number of Bulk Products Hauled: >15



### **Aurizon Operations Overview**

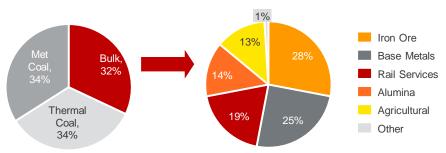
Aurizon Operations consists of Bulk, Coal and Other business units. Bulk is a growing share of revenue and EBIT

\$m <sup>3</sup>	1HFY2021 <sup>4</sup>	FY2020	FY2019
Revenue	1,146	2,422	2,306
Operating Costs	(933)	(1,621)	(1,633)
EBITDA - underlying	339	696	673
Depreciation & Amortisation	(126)	(247)	(238)
EBIT – underlying	213	449	435
Operating Ratio (%)	81.4%	81.5%	81.1%
NPAT – underlying	152.8	307	299
Free Cashflow <sup>5</sup>	72	528	393

#### Impact of Cliffs 50% cessation $\mathbf{V}$ 40% 32% 29% 24% 30% 20% 26% 18% 10% 10% 8% 0% -10% -4% **FY17** 1H FY21 **FY18** FY19 **FY20** 🔶 Revenue 🔶 EBIT

BULK SHARE OF OPERATIONS REVENUE & EBIT<sup>1</sup>

### REVENUE BY COMMODITY<sup>2</sup>



1. Ex-Access Revenue

2. 1HFY2021. Base metals includes associated mining inputs (and rare earths). Rail services includes hook and pull contracts. Revenue is net of Access.

3. Underlying continuing operations.

4. Unaudited 1HFY2021 Financials

5. FY19 Free Cashflow is based on the current corporate structure and thus excludes intercompany dividends received



4. Key Credit Highlights



### Key Credit Highlights

Solid demand for Australian coal and growth in key bulk commodities

Strong position in competitive market as Australia's largest rail freight operator

High fixed-revenue, long-term contracts with strong customers

Stable financial performance through the business cycle (including COVID-19)

Strong balance sheet with Board & Management commitment to current Baa1/BBB+ credit ratings

Committed to long-term target of net-zero operational emissions (scope 1 and 2) by 2050



### 1. Solid Australian Export Coal Demand

Australia coal export volume is driven by steel-intensive growth in India and prolonged thermal electricity generation in Asia, supporting coal export growth of ~1%pa over the next decade

#### METALLURGICAL COAL

- Metallurgical coal (or coking coal) is primarily used to produce steel, an integral link with economic development
- > Crude steel production occurs primarily via the blast furnacebasic oxygen furnace (BF-BOF) route, which accounted for 1.3 billion tonnes of crude steel production (72% of total global crude steel production) in 2019<sup>1</sup>. In this process, metallurgical coal currently has no economically viable substitute
- Australia's largest metallurgical coal export market<sup>2</sup>, India produced 100mt<sup>3</sup> of crude steel in CY2020, a decrease of 11% from (record high production in) the prior year. COVID-19 impacted in 1H, recovery took place in 2H with production +2% compared to 2HCY2019
- The Office of Chief Economist projects crude steel production growth in India of 5.4% per annum (from 2019), reaching 153mt in 2025<sup>4</sup>
- India coking coal import dependence was 91% for FY2020<sup>5</sup>

#### THERMAL COAL

- Thermal coal is primarily used as a heat source for energy generation, holding a 37% share of global generation in 2019<sup>6</sup>. Thermal coal is also used as a source of energy in cement production, where around 200 kilograms of coal is required to produce one tonne of cement<sup>7</sup>
- Almost all Australian thermal coal export volume is destined for Asia (CY2020: 98%)<sup>2</sup>
- For Southeast Asia (ex-Indonesia), over 12GW of coal-fired capacity has come online since 2017 with a further 14GW considered under construction<sup>8</sup>
- The International Energy Agency projects an 82% growth in coal-fired energy generation in Southeast Asia between 2019 and 2040<sup>9</sup>
- Vietnam is now Australia's fifth largest thermal coal trading partner (by volume) with record export volume of 14mt in CY2020<sup>2</sup>

- 2. Australian Bureau of Statistics
- 3. World Steel Association, Statistics
- 4. Office of Chief Economist, Resources and Energy Quarterly (March 2020)

6. International Energy Agency, World Energy Outlook (2020)

<sup>1.</sup> World Steel Association, World Steel in Figures 2020

<sup>5.</sup> India Ministry of Coal, Provisional Coal Statistics (2019-20). India financial year (April to March). Domestic washed coal (only) included in calculation

<sup>7.</sup> World Coal Association, Basic Coal Facts

<sup>8.</sup> S&P Global Market Intelligence World Electric Power Plants Database (December 2020). Indonesia excluded given domestic coal availability

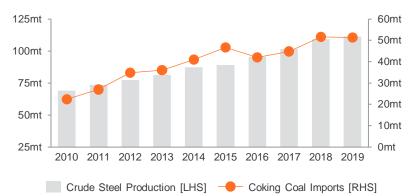
<sup>9.</sup> International Energy Agency, World Energy Outlook 2020 (Stated Policies Scenario)



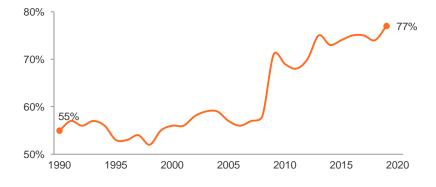
### Future of Coal | Metallurgical Coal

Driven by urbanisation and infrastructure development, the opportunity remains for India and Southeast Asian nations to increase steel usage





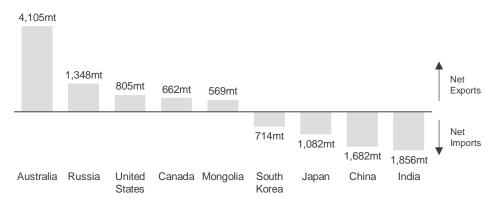
### ASIA: PROPORTION OF GLOBAL METALLURGICAL COAL IMPORT VOLUME $^{\rm 3}$



#### APPARENT STEEL USE (CRUDE STEEL EQUIVALENT) PER CAPITA VS. GDP PER CAPITA BY KEY COUNTRIES<sup>2</sup>



### AGGREGATE METALLURGICAL COAL TRADE BALANCE BY MAJOR COUNTRIES $(2020-2040)^4$



1. World Steel Association, Global Trade Atlas

2. GDP (Purchasing Power Parity; international dollars) – World Bank (2019 data), Population - World Bank (2019 data), Apparent Steel Usage & Apparent Steel Usage & Apparent Steel Usage & Apparent Steel Usage and Apparent Steel Usage & Apparent Steel Usage and Apparent Steel Usage & Apparent &

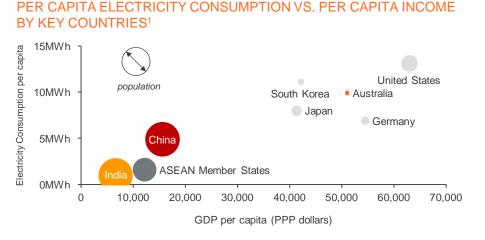
3. International Energy Agency, Coal Information 2020.

4. Wood Mackenzie Global Coal Markets Tool (2020 2H).

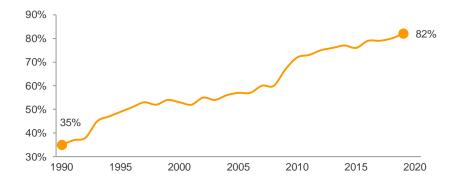


### Future of Coal | Thermal Coal

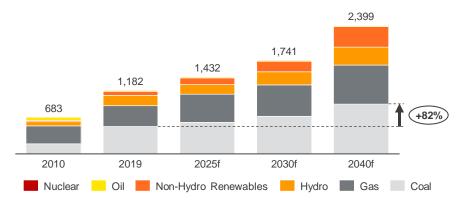
Although it is recognised that thermal coal generation will reduce as a percentage of global energy, Asia is projected to use coal-fired generation assets for an extended period



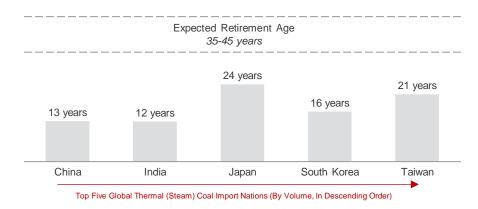
#### ASIA: PROPORTION OF GLOBAL THERMAL COAL IMPORT VOLUME<sup>3</sup>



## IEA WORLD ENERGY OUTLOOK (STATED POLICIES SCENARIO) FOR ELECTRICITY GENERATION IN SOUTHEAST ASIA, BY SOURCE (TWh)<sup>2</sup>



#### AVERAGE AGE OF COAL-FIRED ELECTRICITY CAPACITY<sup>4</sup>



1. GDP (Purchasing Power Parity, current international dollars) – World Bank (2018 data), Population - World Bank (2018 data), Electricity Consumption (KWh) – International Energy Agency (2018 electricity consumption per capita data). ASEAN Member States: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam.

2. International Energy Agency, World Energy Outlook 2020

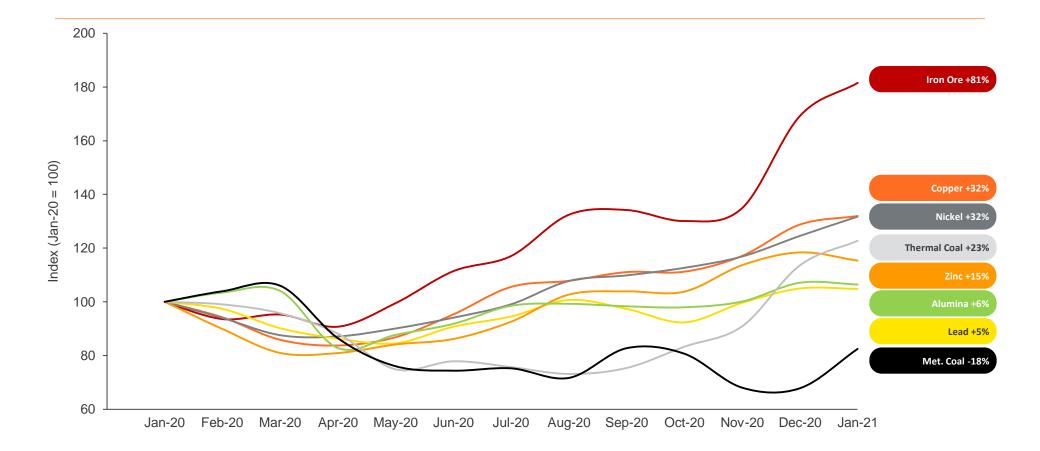
3. International Energy Agency, Coal Information 2020

4. S&P Global Market Intelligence World Electric Power Plants Database (December 2020). Average age is capacity weighted and calculated as at December 2020.



### **Commodity Price Chart (12 months)**

Commodity prices remain resilient despite impact of COVID related lockdowns

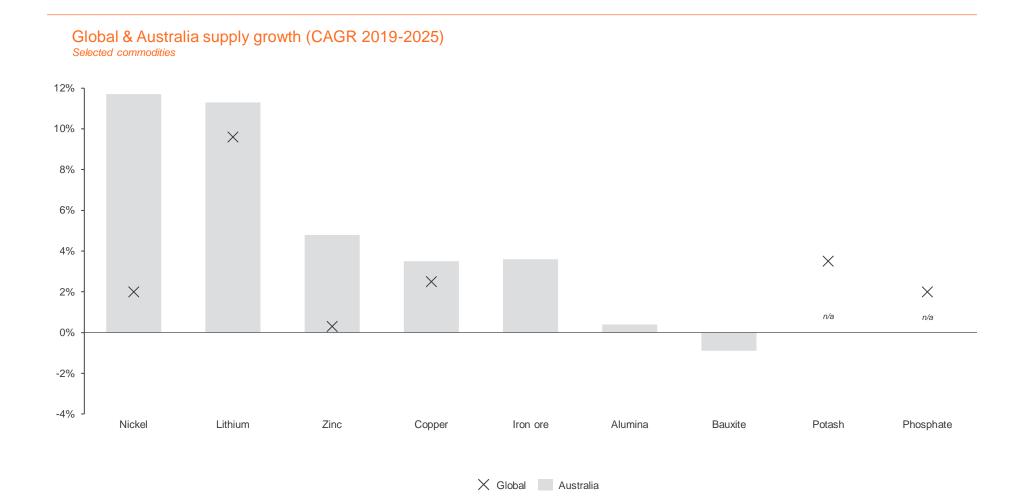




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### Growth in Key Bulk Commodities

Australia is a significant contributor to the growth in supply of bulk commodities



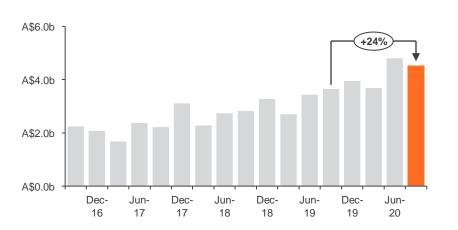
Notes/Sources: Lithium, Nickel, Bauxite, Iron ore, Alumina, Zinc, Copper: Office of the Chief Economist (Resources & Energy Quarterly March 2020), Potash and phosphate (Phosphate is represented by Phosphoric Acid): Food & Agriculture Organization of the United Nations – World fertilizer trends and outlook to 2022 (growth represents world supply between 2016-2022). No global growth figures stated for iron ore, alumina or bauxite.

CAPITAL EXPENDITURE: METAL ORE MINING<sup>1</sup>

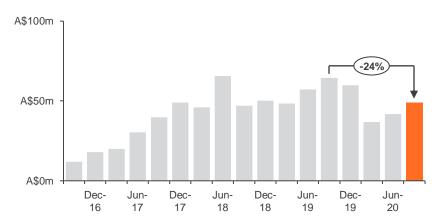


### Bulk – Australia Capital & Exploration Expenditure

Aurizon Operations is well placed to service customers within growing commodity markets

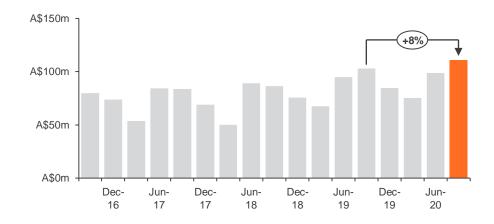


#### EXPLORATION EXPENDITURE: NICKEL & COBALT

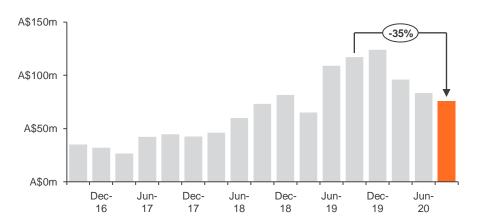


1. Metal Ore Mining includes: Iron ore, Bauxite, Copper, Gold, Mineral Sand, Nickel, Silver, Lead, and Zinc ore mining Source: Australian Bureau of Statistics

#### EXPLORATION EXPENDITURE: IRON ORE



#### EXPLORATION EXPENDITURE: COPPER





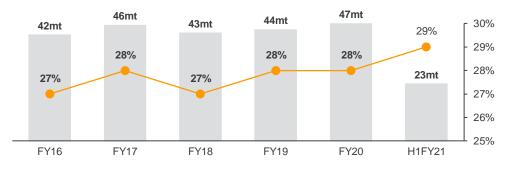
### 2. Strong Market Position

Aurizon is the largest independent rail freight operator within Australia

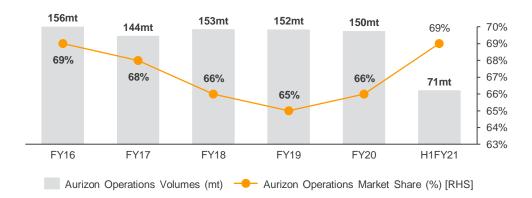


#### Historical Total Above Rail Volume - By Business Unit

Hunter Valley Coal Network - Export Haulage Volume (Only)



#### Central Queensland Coal Network - All haulage volume



Note: Bulk Volumes: FY2016 aggregate volumes include freight and iron ore tonnes which were historically reported separately. Market share figures are estimated based on Central Queensland Coal Network and Hunter Valley Coal Chain reporting. In addition to export volume, Aurizon also hauls the majority of Hunter Valley domestic volume (9.4mt in CY2020). Source: HVCCC Daily Performance summary reports (Coal Received tonnes (Achieved Excl Road)), HVCCC 2020 Annual Declaration report (30 September 2019), Aurizon financial year investor presentations and internal Aurizon haulage volume data.



## Bulk Is Expanding Its Product Offering Through Recent Acquisitions

Bulk expands product offering with Aurizon Operations' acquisition of Townsville Bulk Storage and Handling in Newcastle and ConPorts in Newcastle

Townsville Bulk Storage and Handling (1HFY20):

- Storage and stevedoring services at Townsville Port
- Land and assets adjacent to Aurizon owned rail lines



ConPorts (1HFY21):

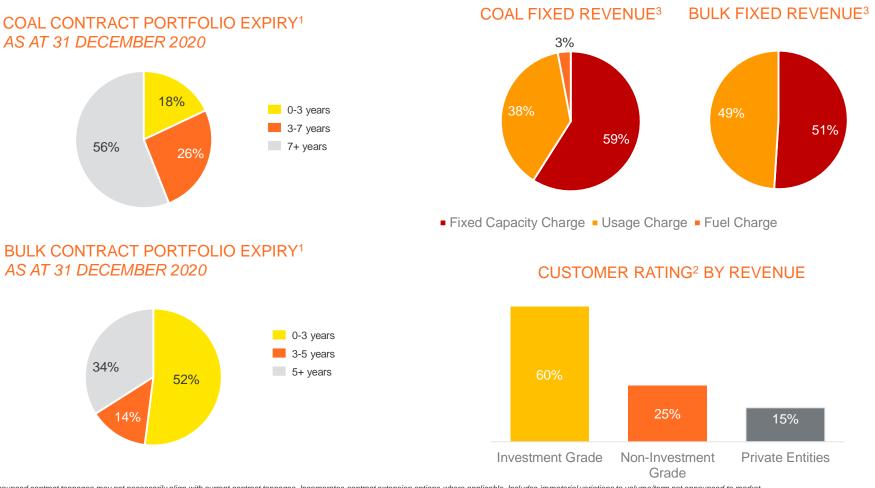
- Bulk export terminal and ship-loading facility located at the Port of Newcastle
- > Adjacent berth and rail lines
- > Primary exports: Copper and Zinc concentrate





### 3. High Fixed Revenue Long-Term Contracts

Contracts for both Bulk and Coal are > 50% fixed revenue, with the majority of coal contracts locked in for > 7 years



1. Announced contract tonnages may not necessarily align with current contract tonnages. Incorporates contract extension options where applicable. Includes immaterial variations to volume/term not announced to market.

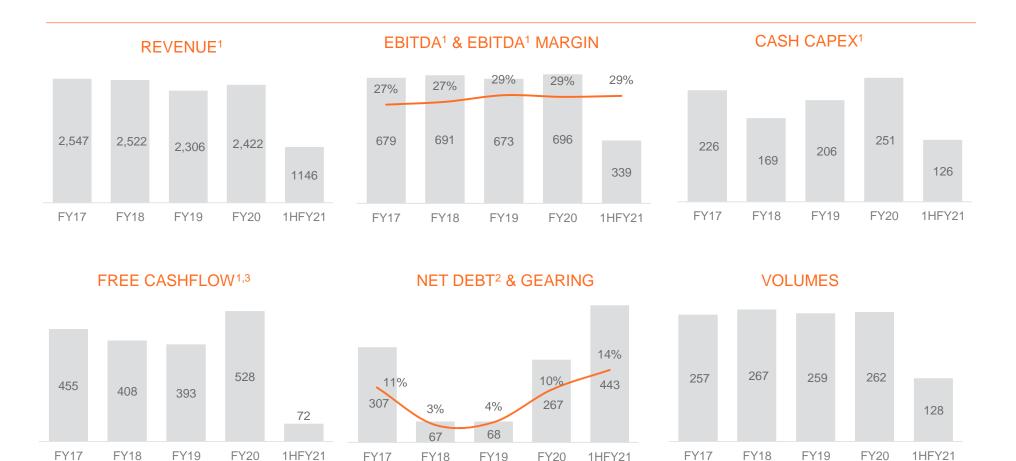
2. Source: S&P, some ratings are implied by S&P. If listed, then listed entity credit rating used. If listed but no S&P credit rating or if not listed, then parent comp any or majority shareholder rating used. If no single majority shareholder but multiple shareholders

(equaling 50%) have either investment or non investment grade ratings, then that grade is used. If no majority credit rating, then considered a private entity. 3. 1HEY2021



### 4. Strong Financial Performance<sup>4</sup>

Aurizon Operations has stable operating cash flows and EBITDA through the cycle



1. Underlying continuing operations

2. Net debt = Total borrowings less cash and cash equivalents

3. FCF as per the current corporate structure, thus exclusive of intercompany dividend received. Also noting FY20 is inclusive of \$165m proceeds relating to sale of Rail Grinding partially offset by \$21m TBSH acquisition and FY21 is inclusive of \$63m worth of acquisitions (Conports and OxMountain)

4. FY17-FY19 and 1HFY21 represent unaudited proforma balances reflecting the current group structure. In August 2019, Aurizon Holdings undertook a company reorganisation to create a standalone funding structure for Aurizon Operations, unlocking \$1.2b of debt capacity to be added progressively over time and within its BBB+/Baa1 rating'

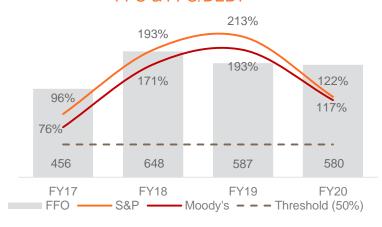


## 5. Strong Balance Sheet and Commitment to Rating

Aurizon Operations is currently funded entirely through bank debt, with significant additional debt capacity available within it's rating thresholds (Baa1/BBB+)

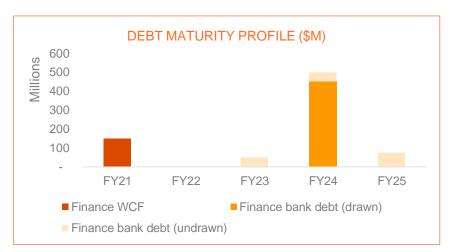
### OVERVIEW

- Aurizon Operations is rated by Moody's (Baa1 / stable) and S&P (BBB+ / stable)
- Board & Management are committed to maintaining current credit ratings
- Consistent with strategy, leverage will increase over time



FFO	& F	FFO	/DF	-B1	2

KEY DEBT METRICS	H1FY2021	FY2020
Weighted average maturity <sup>1</sup>	3.1 years	3.4 years
Interest cost on drawn debt	1.98%	2.4%
Gearing	14.3%	10.2%
Operations Credit Ratings (S&P/Moody's)	BBB+/Baa1	BBB+/Baa1





## 5. Transaction Summary



### **Transaction Overview**

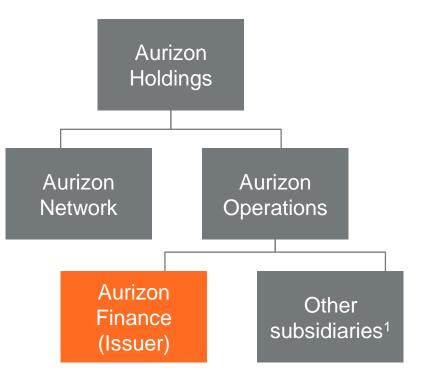
### **Key Transaction Parameters**

Issuer	Aurizon Finance Pty Ltd
Format	Senior unsecured A\$MTN Notes
Issue Rating	Baa1/BBB+ (Moody's / S&P)
Format	Fixed
Tenor	7 years or longer
Programme	A\$MTN Programme
JLMs	MUFG, NAB, SMBC Nikko

### Key Dates

Date	Activity
15 <sup>th</sup> Feb	Half Year Results
23 <sup>rd</sup> /24 <sup>th</sup> Feb	Investor Roadshow via NetRoadshow (Group Call and 1-1 meetings)







## Glossary

Metric	Description
Access Revenue	Amounts received by Aurizon Network for access to the Network infrastructure under all Access Agreements
AFD	Access Facilitation Deed
Average haul length	NTK/Total tonnes
Contract utilisation	Total volumes hauled as a percentage of total volumes contracted
CQCN	Central Queensland Coal Network
dGTK	Diesel fuel used per Gross tonne kilometre. GTK is a unit of measure representing the movement over a distance of one kilometre of one tonne of vehicle and contents including the weight of the locomotive & wagons
ESG	Environment, Social & Governance
Footplate hours	A measure of train crew productivity
Free cash flow (FCF)	Net operating cash flows less net cash flow from investing activities less interest paid
FTE	Full Time Equivalent - The number of unique employee positions filled by all Aurizon employees (excluding contractors/consultants) as at period end. The NTK/Employee metric for the half year is annualised for comparative purposes and uses period-end FTE
FWC	Fair Work Commission
GAPE	Goonyella to Abbot Point Expansion
Gearing	Net debt/(net debt + equity)
Gross Contracted NTKs	Gross contracted tonnages multiplied by the loaded distances (calculated on a contract by contract basis)
GTKs	Gross Tonne Kilometres
Maintenance	Maintenance costs exclude costs associated with traction, telecommunication, ballast and undercutting, rail renewals, flood repairs and derailments
MAR	Maximum Allowable Revenue that Aurizon Network Pty Ltd is entitled to earn from the provision of coal carrying train services in the CQCN
Mtpa	Million tonnes per annum
NTK	Net Tonne Kilometre. NTK is a unit of measure representing the movement over a distance of one kilometre of one tonne of contents excluding the weight of the locomotive and wagons
Operating Ratio	1 – EBIT margin. Operating ratio calculated using underlying revenue which excludes interest income & significant items
Opex	Operating expense including depreciation and amortisation
Payload	The average weight of product hauled on behalf of Aurizon customers per service, calculated as total net tonnes hauled / total number of services
PIA	Protected Industrial Action
QCA	Queensland Competition Authority
ROIC	ROIC is defined as underlying rolling twelve-month EBIT divided by the average invested capital. The average invested capital is calculated as the rolling twelve-month average of net assets (excluding cash, borrowings, tax, derivative financial assets and liabilities)
TCFD	Task Force on Climate related Financial Disclosures
ТоР	Take-or-Pay. Contractual ToP provisions entitles Aurizon Network to recoup a portion of any lost revenue resulting from actual tonnages railed being less than the regulatory approved tonnage forecast
Underlying	Underlying earnings is a non-statutory measure and is the primary reporting measure used by Management and the Group's chief operating decision making bodies for the purpose of managing and determining financial performance of the business. Underlying results differ from the Group's statutory results. Underlying adjusts for significant/one-off items
Velocity	The average speed (km/h) of Aurizon train services (excluding yard dwell)
WACC	Weighted average cost of capital
WIRP	Wiggins Island Rail Project

### **Contact and further information**

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## 6. Additional Information

- i. Capital Allocation Hierarchy
- ii. Financials
- iii. Coal
- iv. Aurizon Network Update



6 (i) Capital Allocation Hierarchy



### **Prioritisation of Capital**



Capital management options influenced by low franking and share capital account balance



# 6 (ii) Financials



### Balance sheet summary – Aurizon Operations Limited

\$m	1HFY2021 <sup>1</sup>	30 June 2020
Assets classified as held for sale	67.2	65.1
Other current assets	395.9	507.7
Total current assets	463.1	572.8
Property, plant and equipment (PP&E)	3,273.8	3,267.5
Other non-current assets	256.4	235.1
Total non-current assets	3,530.2	3,502.6
Total Assets	3,993.3	4,075.4
Liabilities classified as held for sale	(0.8)	(0.7)
Other current liabilities	(553.0)	(597.0)
Total borrowings	(471.2)	(354.5)
Other non-current liabilities	(212)	(203.1)
Total Liabilities	1,214.0	1,155.3
Net Assets	2,779.3	2,920.1



# Summary Statement of Cash Flows<sup>1</sup> – Aurizon Operations Limited

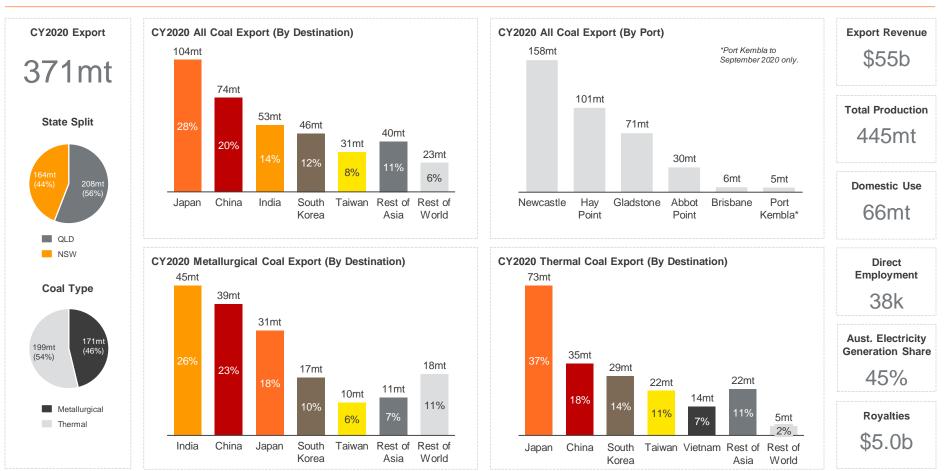
\$m	31 December 2021 <sup>2</sup>	30 June 2020
Cash flows from operating activities		
Receipts from customers	1,329.4	2,889.6
Payments to suppliers and employees	(995.1)	(2,187.6)
Interest / income tax / other	(75.4)	(65.9)
Net cash inflow from operating activities	258.9	636.1
Cash flows from investing activities		
Proceeds from sale of business / PPE	8.5	180.5
Payments for acquisition / PPE	(188.8)	(275.2)
Dividends received / Distributions received / Other	0.4	(1.6)
Net cash outflow from investing activities	(180.7)	(96.3)
Cash flows from financing activities		
Proceeds / Repayments of borrowings / ICOY	212.8	284.0
Interest / Transaction costs / Lease payments	(15.2)	(26.1)
Dividends paid	(191.7)	(403.6)
Payments for reduction in share capital	(104.1)	(403.6)
Net cash outflow from financing activities	(98.2)	(549.2)
Net increase / (decrease) in cash equivalents	(20.0)	(9.4)



# 6 (iii) Coal



### **Australian Coal Summary**

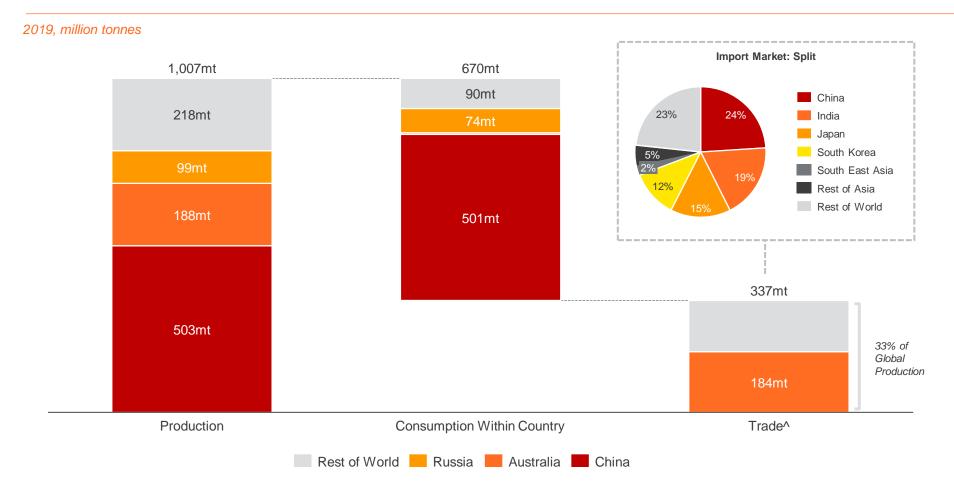


Note: Due to different sources and rounding, the sum of individual elements may not equal the corresponding aggregate figure. Sources – Export: CY2020 National export volume and coal type sourced from Australian Bureau of Statistics (ABS). CY2020 Export state split sourced from port/terminal reporting. CY2020 All Coal Export (By Destination): Includes anthracite volume, sourced from ABS. CY2020 All Coal Export (By Port): Sourced from respective port/terminal reporting. Hay Point includes both Hay Point Coal Terminal and Dalrymple Bay Coal Terminal. CY2020 Metallurgica/Thermal Export (By Destination): Sourced from ABS. Export Revenue: Sourced from ABS. Total Production: (12 months to September 2020) - Volume (saleable coal), sourced from Office of Chief Economist (OCE) Resources and Energy Quarterly December 2020. Domestic Use: (12 months to September 2020) - National consumption calculated using production (OCE) less exports (OCE). Employment: FY2020 ABS Labour Account Australian Electricity Generation Share: Data for FY2019 (GWh, black coal only), sourced from Department of the Environment & Energy, Australian Energy Update 2020. FY2020 Royalties include QLD and NSW Royalties. Sourced from NSW Department of Planning & Environment.



### Global Metallurgical (Coking) Coal Landscape

Around one-third of global metallurgical coal demand is met through the global traded export market with Australia commanding over half of this market

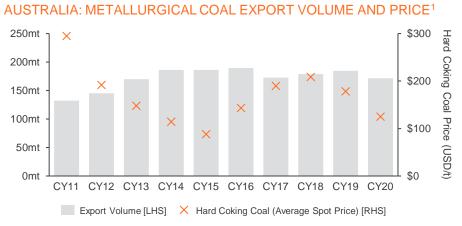


^Trade includes both seaborne and landborne volume. Metallurgical coal seaborne market was 88% of total trade in 2019 (IEA Coal 2020).



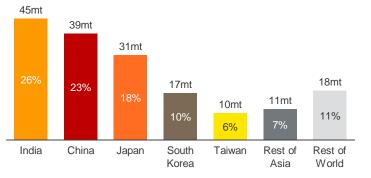
### Metallurgical Coal Market | Australia

Driven by quality, cost-competitiveness and proximity to Asian markets, Australia holds a unique position in the seaborne market

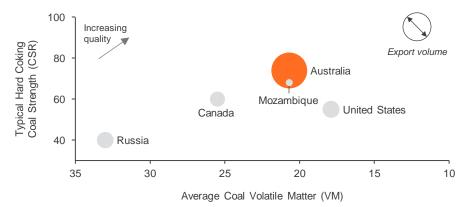


#### METALLURGICAL COAL CASH COSTS (US\$/t, CFR INDIA, 2020)<sup>2</sup> \$200 \$160 \$120 \$120 \$120 \$120 \$178 \$84 \$101 \$114 \$114 \$184 \$184 \$101 \$184 \$184 \$101 \$184 \$184

### AUSTRALIA: CY2020 METALLURGICAL COAL EXPORT (BY DESTINATION)<sup>3</sup>



#### METALLURGICAL COAL QUALITY<sup>4</sup>



1. Export Volume – Australian Bureau of Statistics. Hard Coking Coal Price – Platts (Peak Downs Region product).

Wood Mackenzie Coal Cost Curves (Data: August 2020, Reference Year: 2020), Wood Mackenzie Global Coal Markets Tool (Data: 2020 2H, Reference Year: 2020), Sea freight export terminal assumptions: US – East Coast, Canada – West Coast, Australia – Hay Point (Metallurgical), Russia - East.

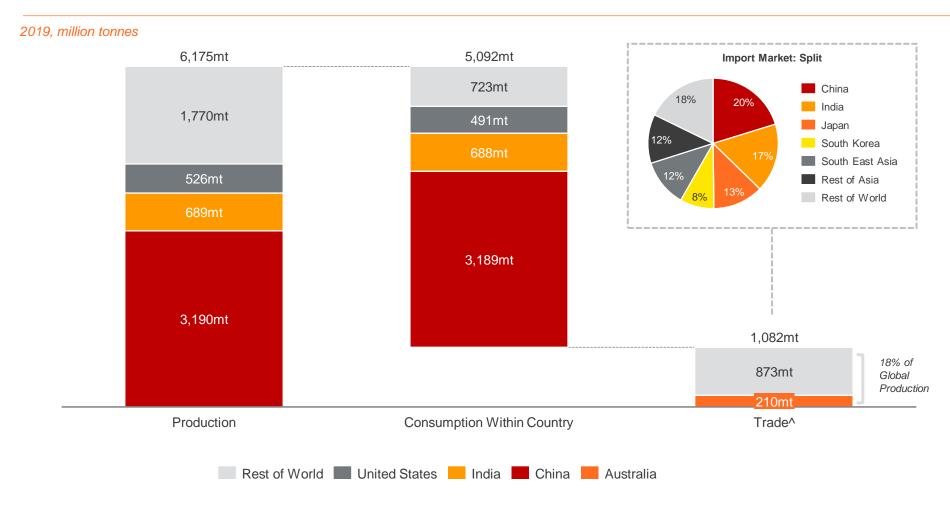
3. Australian Bureau of Statistics

4. Wood Mackenzie Global Coal Markets Tool (2020 2H), Wood Mackenzie Coal Cost Curves (Data August 2020, Reference Year: 2020), AME Research.



### Global Thermal (Steam) Coal Landscape

Over 80% of global thermal coal demand is produced and consumed within country. Australia holds around one-fifth of the global trade market that is dominated by Asian demand



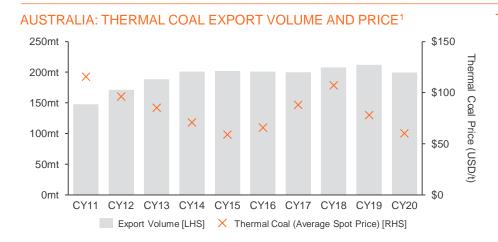
^Trade includes both seaborne and landborne volume. Thermal (Steam) coal seaborne market was 94% of total trade in 2019 (IEA Coal 2020)

Source: International Energy Agency (IEA) Coal Information 2020 (data). Steam Coal includes all anthracite and bituminous coals not considered coking coal and also includes sub-bituminous coal. Production includes both primary extraction in addition to recovered product from slurries, middlings and coal dust. Consumption Within Country is defined as production less exports. No energy-adjustment applied.

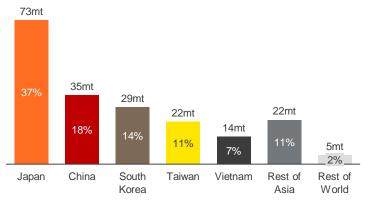


### Thermal Coal Market | Australia

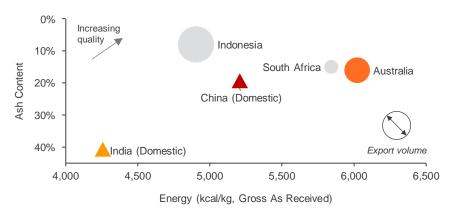
Australia's thermal coal competitiveness is driven by coal quality characteristics and geographic proximity to Asia. Around 98% of Australian exports are destined for Asia



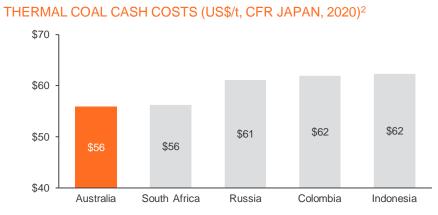
#### AUSTRALIA: CY2020 THERMAL COAL EXPORT (BY DESTINATION)<sup>3</sup>



#### THERMAL COAL QUALITY<sup>4</sup>



Notes/Sources: 1 & 3. Export Volume (and country split) - Australian Bureau of Statistics. Thermal Coal Price - Intercontinental Exchange (Newcastle 6,300 kcal/kg Gross As Received product). Rest of Asia: India & ASEAN Member States (excl. Vietnam – shown separately) 2. Wood Mackenzie Coal Cost Curves (Data: August 2020, Reference Year: 2020), Wood Mackenzie Global Coal Markets Tool (Data: 2020 2H, Reference Year: 2020), Sea freight export terminal assumptions: Australia – Newcastle (Thermal), Russia - East. 4. Wood Mackenzie Coal Cost Curves (Data: August 2020, Reference Year: 2020), Wood Mackenzie Coal Supply Data Tool (Q3 2020, Reference Year: 2020), India Ministry of Coal, Coal Directory of India (multiple years), 2018-19 Coal Statistics, IEA Coal Medium-Term Market Report 2016, Argus - Argus Coal Daily International, Methodology and Specification Guide (October 2020).

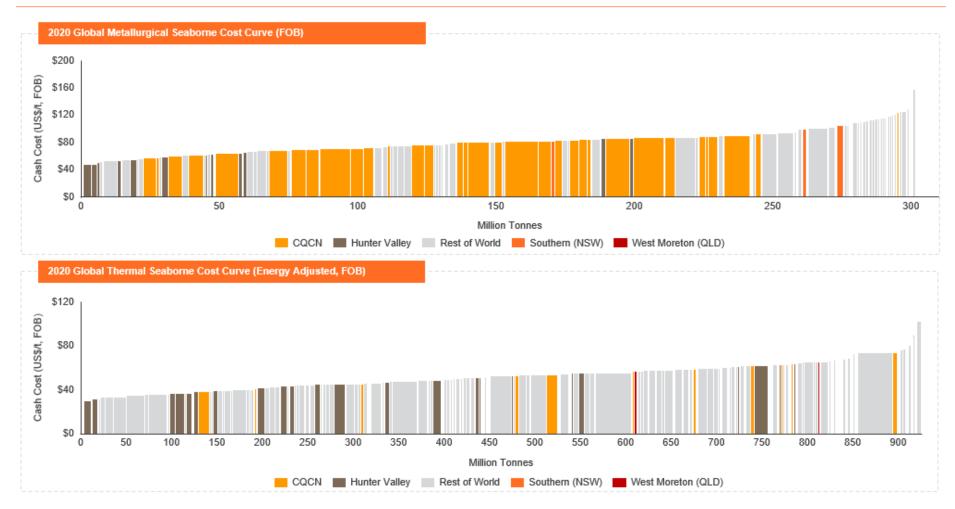


Note: Thermal Cash Costs (FOB) are energy-adjusted to 6,300 kcal/kg (Gross As Received)



### Metallurgical and Thermal Cost Curve

Australia is well position on the cost curve for both Metallurgical and Thermal Coal



Cost Data Source: Wood Mackenzie Cost Curve 2020 (Dataset: August 2020). Note: FOB = Free On Board (includes transport cost to export terminal (only) and does not include shipping to destination. Please note that metallurgical coal cash costs may not fully adjust for product qualities. The thermal coal energy adjustment normalises thermal coal cash costs based on a Newcastle energy benchmark of 6,322 kcal/kg (gar) and may not fully adjust for product qualities (ash quality or sulphur).



6 (iv) Aurizon Network Update



### Aurizon Network Update

WIRP fees commenced during the period, with potential upside from appeal of Expert's Determination. UT5 capacity assessment expected September 2021 quarter

#### WIGGINS ISLAND RAIL PROJECT (WIRP)

- Queensland Court of Appeal dismissed customers' appeal on payment of WIRP fees
- WIRP fees of \$55m recognised including \$49m relating to FY2016-FY2020. Ongoing WIRP Fees (~\$11m) payable until Aug 2035
- Appeal of Expert's Determination commenced in December outcome along with finalisation of cost variation factor will determine final amount payable



Wiggins Island Rail Loop

#### **UT5 UPDATE**

- Finalisation of Initial Capacity Assessment by Independent Expert expected in September 2021 quarter
- > UT5 tariffs assumed 1 March 2020 Report Date (triggering WACC uplift from 5.9% to 6.3%)
- > FY2022 maintenance and capital submission due to Rail Industry Group 28 February 2021

#### VOLUMES / REVENUE

- Based on 1HFY2021, annual volumes will be lower than the approved tariff forecast of 239mt resulting in revenue under-recovery
  - > Expected Take-or-Pay recoveries in FY2021 will reduce revenue cap in FY2023
  - > Revenue cap for FY2023 will include an adjustment for WACC (due to delayed Report Date)



### **Aurizon Network**

EBIT growth from commencement of WIRP fees offsetting lower volumes

\$m	1HFY2021	1HFY2020	Variance	2HFY2020
Track access	569	565	1%	567
Services & other	24	31	(23%)	26
Revenue	593	596	(1%)	593
Energy & fuel	(51)	(54)	6%	(55)
Other operating costs	(135)	(147)	9%	(134)
Depreciation	(166)	(163)	(2%)	(167)
EBIT	241	232	4%	237
Tonnes (m)	103.7	116.6	(11%)	110.3
NTKs (b)	26.0	29.0	(10%)	27.2

#### Revenue

 Commencement of WIRP fees including retrospective amount offset by access revenue under recovery due to lower volumes

#### Costs

- Improvement in operating costs from lower external construction costs, electric traction charges and employee costs driven by cost saving initiatives
- Depreciation increased due to increased levels of asset renewals and ballast undercutting



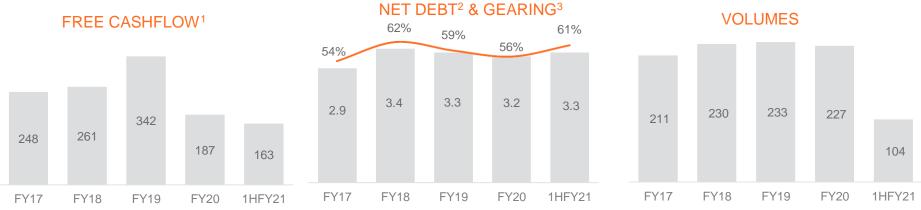
NETWORK EBIT PERFORMANCE (\$M)



### **Aurizon Network Strong Financial Performance**

Network has stable operating cash flows and EBITDA through the cycle





1. FY20 FCF impacted by FY18 UT5 Final Decision true up

2. \$bln. Net debt = Total borrowings less cash and cash equivalents

3. Network Gearing - net debt/Regulated Asset Base



### **Funding Update**

Re-financing activities to reduce interest costs over time

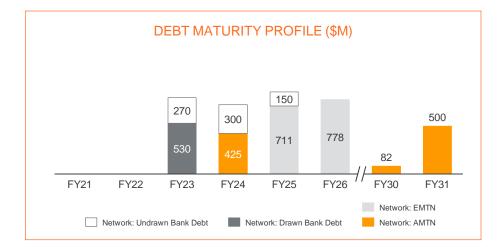
#### 1HFY2021 FUNDING ACTIVITY

Aurizon Network – issued a 10-year, \$500m A\$ Medium Term Note (AMTN) in September 2020, with a coupon of 2.9% per annum. Proceeds were used to repay AMTN maturing in October 2020

#### **INTEREST RATES**

- Aurizon Network debt is 96% fixed until end of FY2021 and 92% for FY2022 and FY2023
- Floating exposure beyond FY2023 to align with Network WACC reset
- Interest costs expected to trend lower consistent with hedging profile

KEY DEBT METRICS	1HFY2021	1HFY2020
Weighted average maturity <sup>1</sup>	5.8 years	4.4 years
Interest cost on drawn debt	4.6%	4.7%
Network Gearing <sup>2</sup> (excl. AFDs <sup>3</sup> )	61%	58%
Network Credit Ratings (S&P/Moody's)	BBB+/Baa1	BBB+/Baa1





## **UT5 Undertaking**

Aurizon Network's access undertaking establishes the framework for access to the coal rail infrastructure in central Queensland

#### **UT5 TIMELINE**



#### Initial Date

> The date on which the draft amending access undertaking (DAAU) was submitted to QCA for approval

#### **Report Date**

Date on which the later of the following events occur:

- > Independent Expert provides Initial Capacity Assessment Report (ICAR); and
- > Aurizon Network notifies relevant parties of proposed options to address Existing Capacity Deficits identified in ICAR.
- > Where ICAR does not identify any Existing Capacity Deficits the Report Date is the date on which the Independent Expert provides the ICAR

#### **Reset Date**

> Reset of risk free rate, debt risk premium and inflation



### **UT5 Undertaking**

### **Revenue Protection Mechanisms**

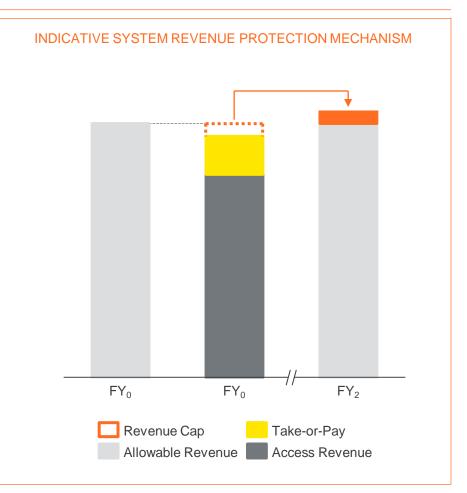
The *Maximum Allowable Revenue* (*MAR*) is the total revenue Aurizon Network is permitted to earn each year, determined in accordance with the *Regulatory Asset Base* (*RAB*) and *Building Block Methodology* 

The MAR forms the basis for calculating reference tariffs<sup>1</sup> and determining Allowable Revenue  $AT_{2-5}$  (AR)

Where system volume is less than the regulatory approved volume forecast, protection mechanisms come into effect to address the revenue shortfall<sup>2</sup>

- Take-or-Pay is the primary mechanism whereby lost revenue is recovered from access holders in the current financial year (capped at available capacity)<sup>3</sup>
- Revenue Cap is the secondary mechanism and comes into effect in the event that Take-or-Pay does not recover a revenue shortfall<sup>4</sup>. This shortfall is recovered two years later

**Patronage risk** occurs when certain mines are no longer in operation. Under the QCA regime, Network will continue to earn its aggregate regulated revenue from the remaining mines that continue to use the system



<sup>1.</sup> Tariffs (All Systems): AT<sub>1</sub> Incremental Maintenance (Gross Tonne Kilometre-based), AT<sub>2</sub> Incremental Capacity (Path-based), AT<sub>3</sub> Allocative (Net Tonne Kilometre-based), AT<sub>4</sub> Allocative (Net Tonne-based). Tariffs (Electric Systems only): AT<sub>5</sub> Electric Access (Electric Gross Tonne Kilometre-based), EC Electric Energy (Electric Gross Tonne Kilometre-based).

3. Excludes AT<sub>5</sub> tariff

<sup>2.</sup> In the event that revenue collected exceeds the Allowable Revenue, the protection mechanisms will return the surplus revenue to access holders

<sup>4.</sup> Such an outcome has historically been driven by adverse weather events leading to force majeure, lowering available capacity. Revenue Cap only applies to AT<sub>2</sub>, AT<sub>4</sub> and AT<sub>5</sub>