

#### **ASX Announcement**

16 November 2017

# Presentation at Morgan Stanley Asia Pacific Summit 2017

Attached is a copy of a presentation prepared by Mr Chris Thiris, Chief Financial Officer and Mr Charles Smitheram, Manager – Treasury and Investor Relations Alumina Limited, for the Morgan Stanley Asia Pacific Summit 2017 held in Singapore.

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16 November 2017

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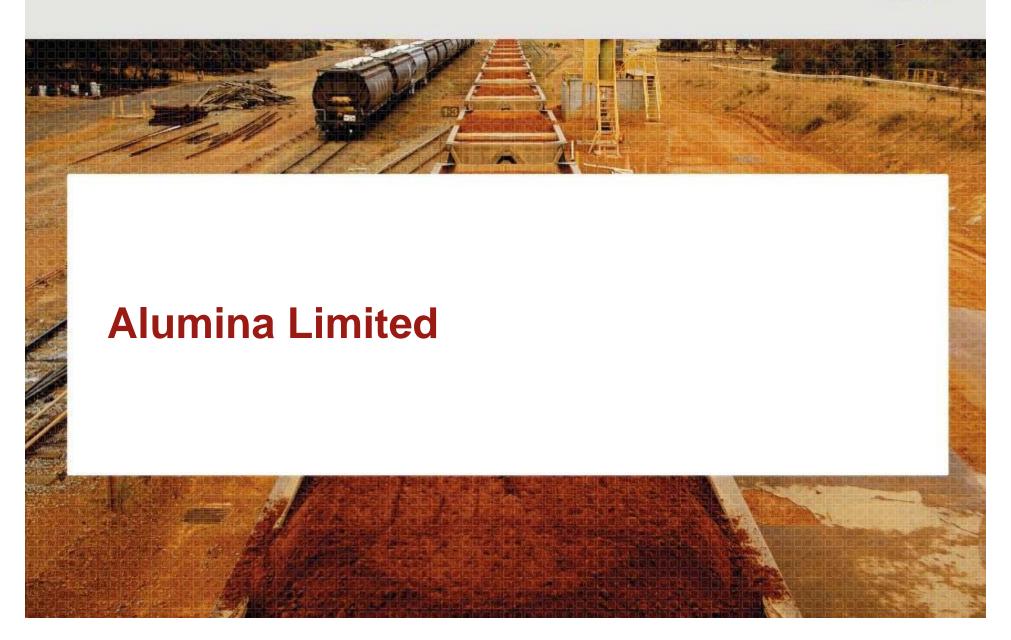
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### **Overview**



Alumina Limited represents a unique investment in globally leading bauxite mines and alumina refineries, through its 40% investment in Alcoa World Alumina and Chemicals ("AWAC").

Since the beginning of this decade AWAC has undergone business improvement and transformation, which has significantly improved the competitiveness of its portfolio of assets.

During 2013, Alumina Limited restructured its capital base such that its gearing [1] now remains at around 4%.

In November 2016, Alcoa Inc demerged Alcoa Corp, Alumina Limited's joint venture partner in AWAC. At the same time, Alumina Limited negotiated changes to the AWAC joint venture agreements.

AWAC is now integral to the success of both joint venture partners, leading to a renewed and collaborative focus that will see AWAC's journey of improvement and transformation continue with an emphasis on growth opportunities.

AWAC will initially pursue moderate capital projects, using its proprietary technology to grow alumina capacity and will seek to leverage its abundant bauxite resources to more than double its third party sales over the next few years.

Alumina Limited's shareholders should benefit from this strategy at a time when industry fundamentals also look to be improving through measures such as the China supply-side reforms.

## **Alumina Limited**

#### An investment in the AWAC joint venture





Pinjarra Refinery



Ship loading in Brazil

# Alumina Limited is an investment in the upstream segment of the aluminium value chain

Only business activity is 40% investment in AWAC

# Alumina Limited provides the cleanest look through to AWAC's underlying performance

Each AWAC entity is required to pay distributions to JV partners in accordance with JV agreements

Financial policies ensure minimal leverage maintained in Alumina Limited

Alumina Limited's holding costs are also minimal

Alumina Limited's dividend policy is to distribute free cash flow

#### Alumina Limited has rights and powers in the JV agreements

JV agreements protect Alumina Limited's shareholder interests

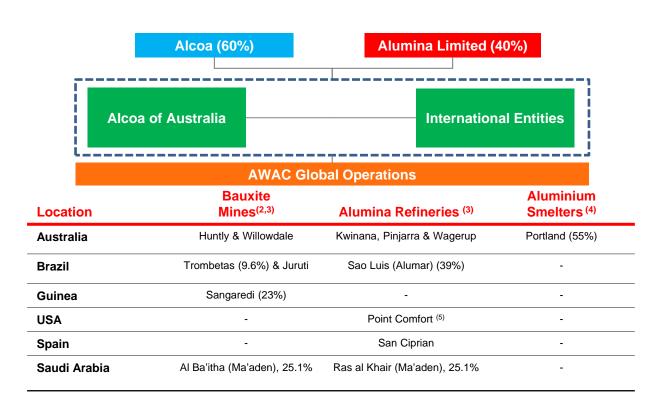
A super-majority vote is required to enact certain material changes to the operations of the Enterprise

## **Alumina Limited**

#### An investment in the AWAC joint venture



#### AWAC's<sup>(1)</sup> Underlying Businesses



<sup>(1)</sup> AWAC is a JV comprised of a number of companies, of which Alcoa of Australia owns and operates the Australian assets.

<sup>(2)</sup> AWAC has other bauxite exploration interests.

<sup>(3)</sup> In January 2017 AWAC announced the mining and refining operations in Suriname would be permanently closed.

<sup>(4)</sup> Point Henry smelter permanently closed on 1 August 2014.

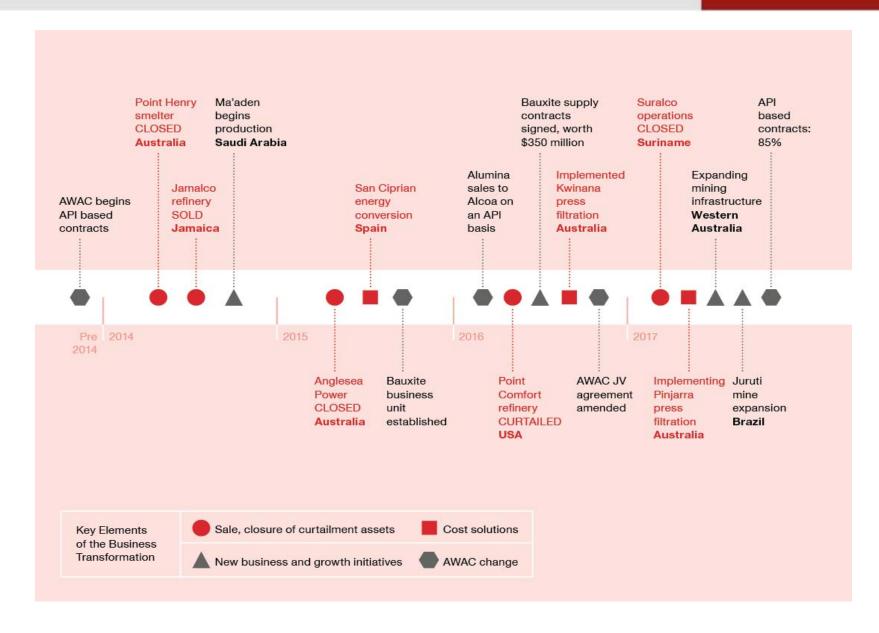
<sup>(5)</sup> The refining capacity at Pt Comfort has been fully curtailed since 30 June 2016.







#### Timeline of business improvement and transformation



### Premier owner and operator of mines and refineries





#### **Mines**

Production: 43.5 million tonnes in 2017f

#### Refineries

Production: 12.6 million tonnes in 2017f

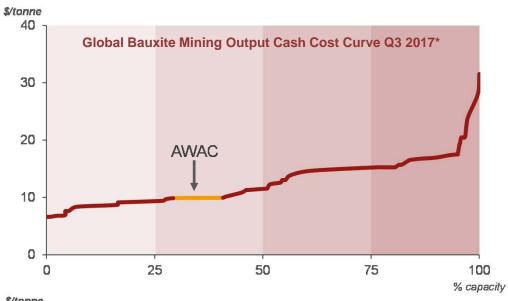
#### **Smelter**

Production: 110 thousand tonnes in 2017f

Source: HARBOR Aluminum

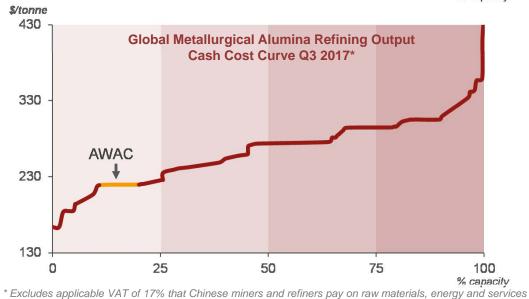
### Low cost producer of bauxite and alumina







Press filtration, Western Australia





Mobile residue spreader, Western Australia

### **Operational and growth objectives**



### **Operational Excellence**

Maintain strong integrated bauxite and refining system with low cost position

Reduce capital intensity of mining and refining operations

**Optimise the portfolio** 

**Expand Alumina Price Index sales** 

Disciplined management of costs and capex

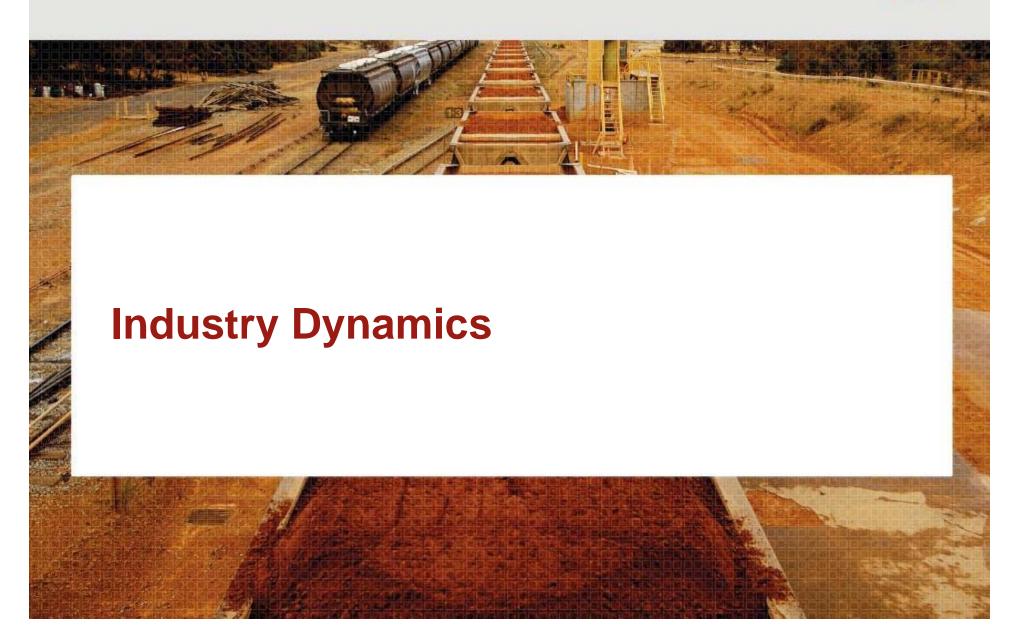
#### **Focused Growth**

**Target brownfield expansions** 

**Creep production** 

**Continue technology innovations** 

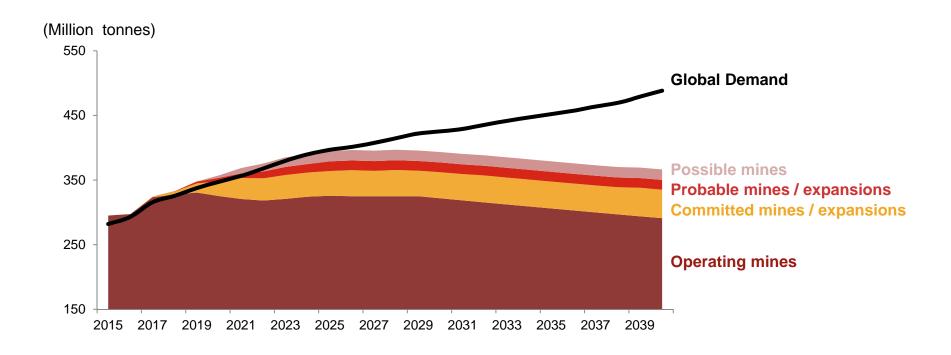




# **Bauxite**

### **Emerging global demand-supply gap**



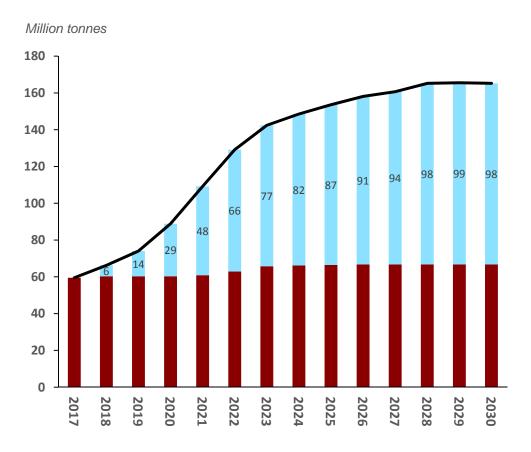


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## **Bauxite**

#### China has a growing need for imported bauxite





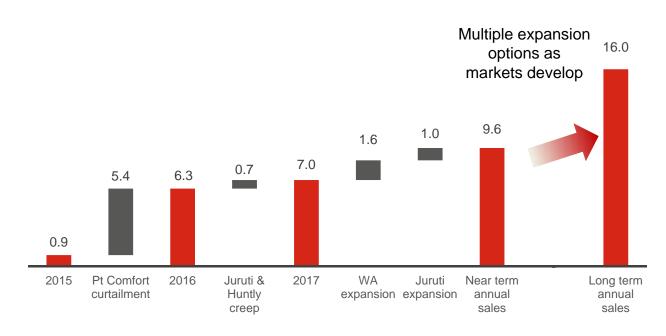
China merchant refineries that are expected to convert to imported bauxite due to depleting domestic quality

China merchant refineries that currently import bauxite

## **Bauxite**

# AWAC's potential growth in third party bauxite sales





Bone dry metric tonnes pa (million tonnes)

#### Chinese winter air pollution policy



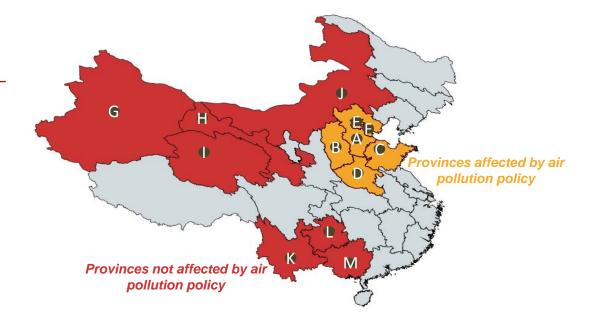
#### Policy has a larger effect on alumina

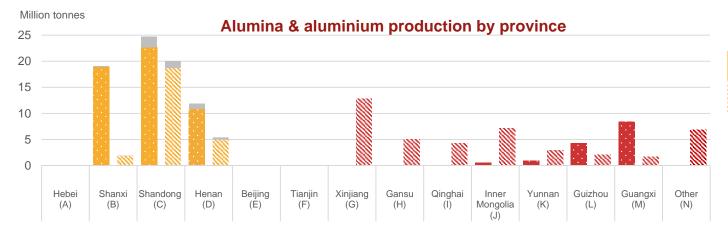
31 affected cities

In provinces that export alumina to other provinces

- 30% reduction in refining and smelting
- Applies 15 November to 15 March

Net short alumina position in China during winter is expected to be c.1.3 million tonnes



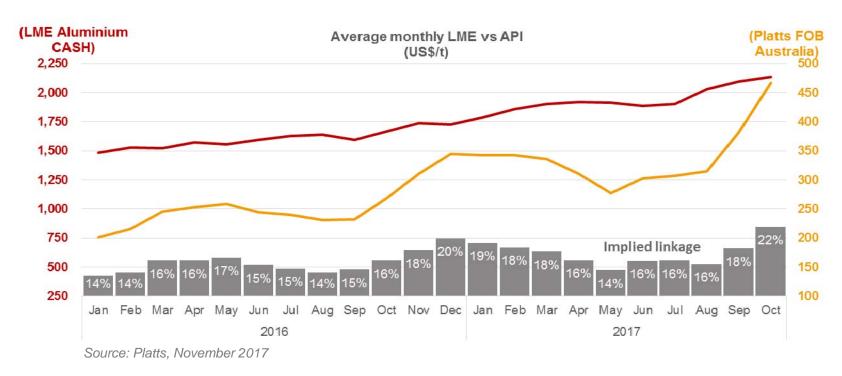




Source: CM Group and Alumina Limited

### SGA price at levels not seen since 2008





#### **Multiple factors affecting SGA price**

Winter cuts expanded to more cities, and during seasonal peak demand

Henan and Shanxi bauxite operations disrupted by environmental audits

Disruption to some Atlantic bauxite operations

Atlantic smelter restarts and tight Atlantic alumina market

Rising energy, bauxite and caustic input costs

Price pull for alumina, given the improvement in the LME

### **Modest greenfield expected outside China**



Country	Company	Location	2017	2018	2019	2020	Туре	Comments
UAE	Emirates Global Aluminum	KIZAD, AI Taweelah		2,000			Greenfield	First phase scheduled to commence production in 2018. A potential Phase II could double capacity to 4.0 million tpy.
Indonesia	Hongqiao Well Harvest Winning Alumina	Ketapang, West Kalimantan					Greenfield	Phase I started operating late 2015. Ramped up to full capacity in 2016. Phase II (1.0 million tpy) was scheduled for 2017 but has not been committed – timing is uncertain.
Indonesia	Inalum/Antam/ Chalco	West Kalimantan			1,000	1,000	Greenfield	Planned project. Not committed yet.
Laos	Yunnan Aluminum	Paksong		1,000			Greenfield	Planned project. Not committed yet.



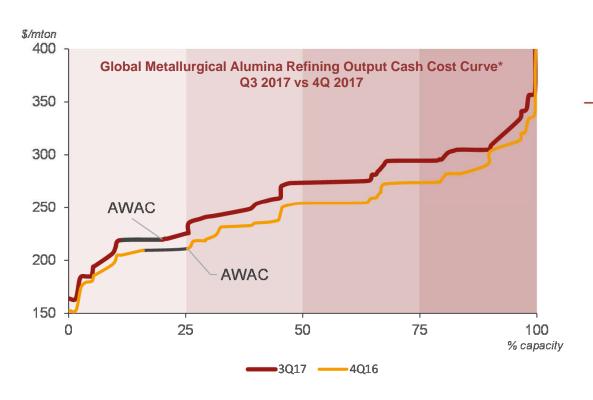
### Available capacity ex China largely curtailed for many years

Curtailed Refineries	Owner	Location	Producing (Mtpa)	Nameplate Capacity (Mtpa)	Comment
Point Comfort	Alcoa/AWAC	US	0.0	2.3	Curtailed in June 2016.
Sherwin Alumina	Glencore	US	0.0	1.7	Closed in September 2016.
Alpart Alumina	JISCO	Jamaica	0.5	1.7	Acquired in curtailed state during mid 2016. Slowly ramping production.
Kirkvine	Windalco	Jamaica	0.0	0.6	Been on care and maintenance since 2009.
Friguia	Rusal	Guinea	0.0	0.7	Idled since 2012. Announced that it may restart.
Anrak	Anrak	India	0.0	1.5	Idled since 2014.
Eurallumina – Porto Vesme	Rusal	Italy	0.0	1.1	Idled since 2010.
Bauxilum	State owned	Venezuela	0.0	2.0	Idled since 2015. Announced that it may restart.
TOTAL			0.5	11.6	

Source: CM Group, November 2017

### **AWAC** is strategically well placed





#### AWAC has many advantages

First quartile producer

SGA on spot/index basis: 85% 2017

Proximity to markets

Largely integrated with mines

<sup>\*</sup> Excludes applicable VAT of 17% that Chinese miners and refiners pay on raw materials, energy and services Source: HARBOR Aluminum