

### **ASX Announcement**

25 September 2019

## Presentation at MB Fastmarkets International Aluminium Conference 23 – 25 September 2019

Attached is a copy of a presentation prepared by Mr Andrew Wood, Group Executive Strategy and Development, Alumina Limited, and delivered at the MB Fastmarkets International Aluminium Conference held in Athens Greece on 24 September 2019.

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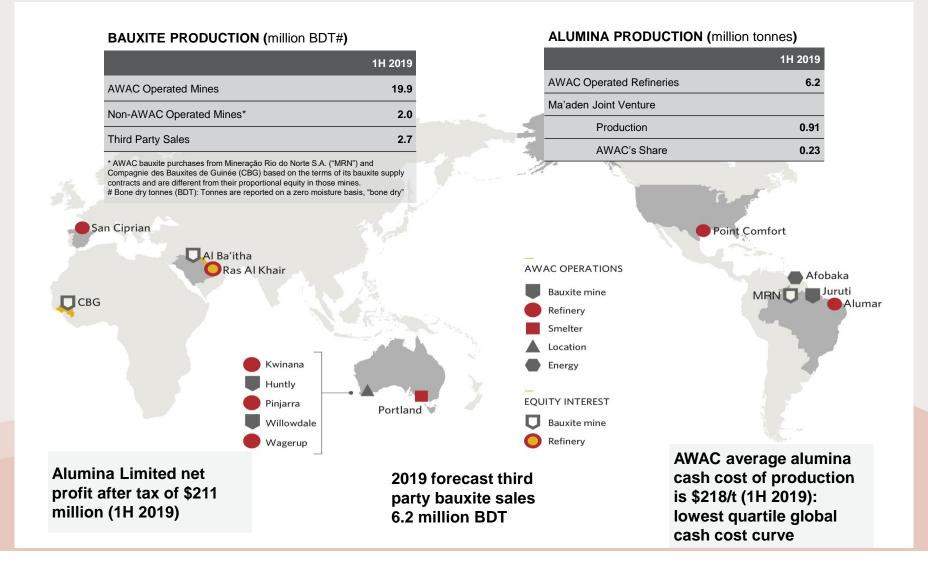
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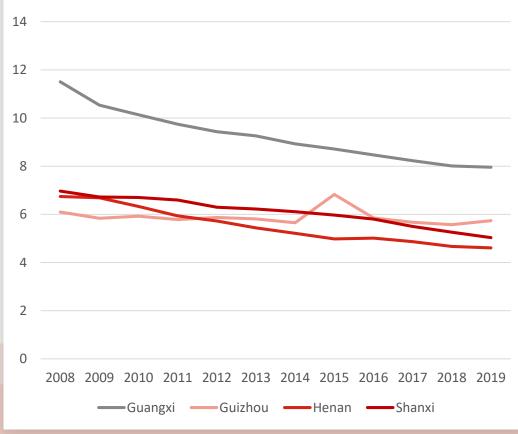
## **AWAC Joint Venture (Alumina Limited 40% interest)**



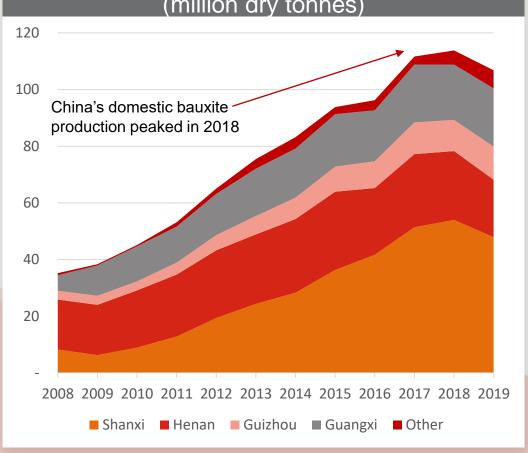


# Chinese domestic bauxite output peaked in 2018 – now declining on depleting reserves, lower grades and environmental constraints



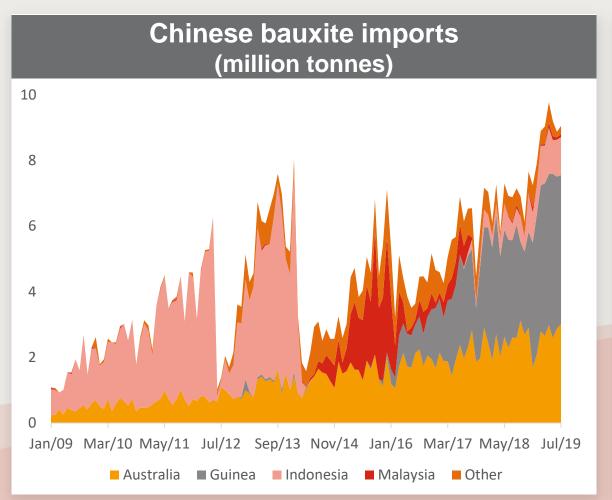


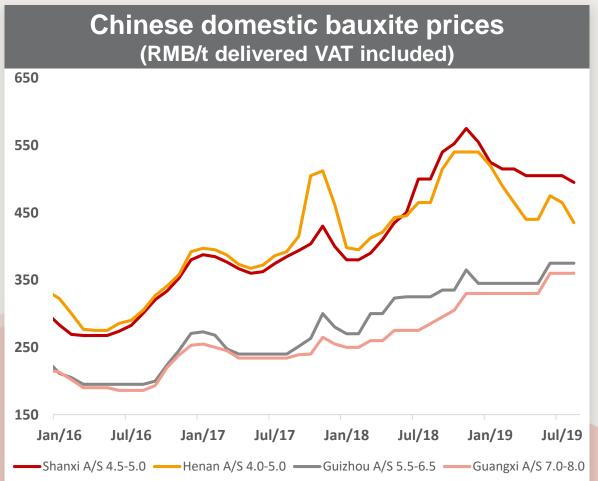
## Historical Chinese domestic bauxite production (million dry tonnes)





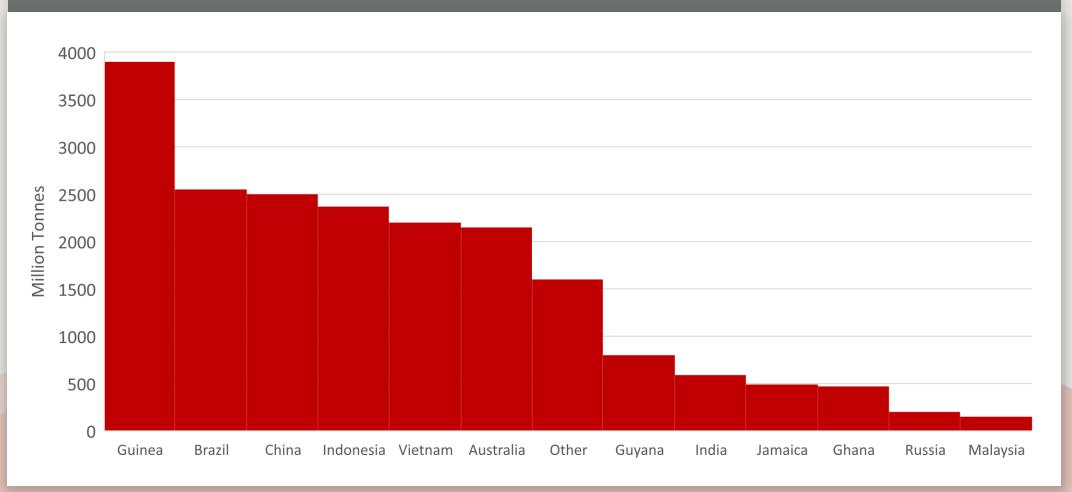
# Chinese bauxite imports – increases from Guinea/Australia have replaced Indonesia/Malaysia as key sources; domestic price rises





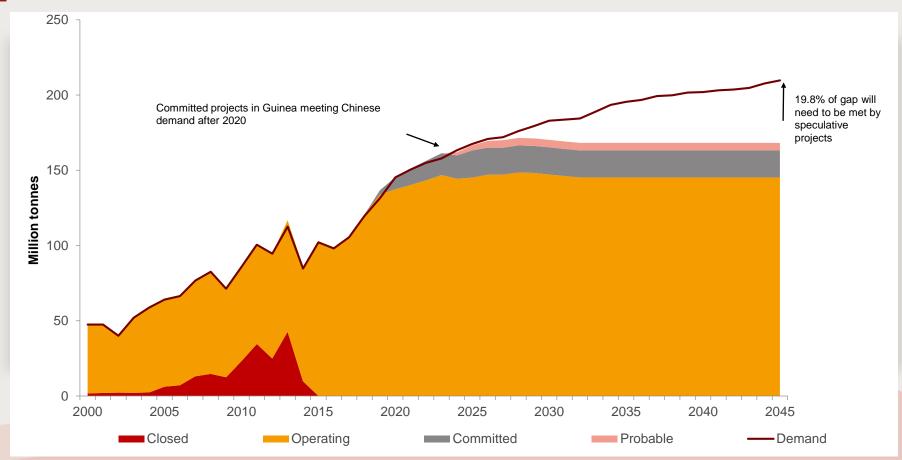
# Ample global bauxite reserves – costs, logistics, sovereign issues, sustainability and competition will impact which reserves are developed

## Global bauxite reserves can serve current alumina production rates for over 60 years





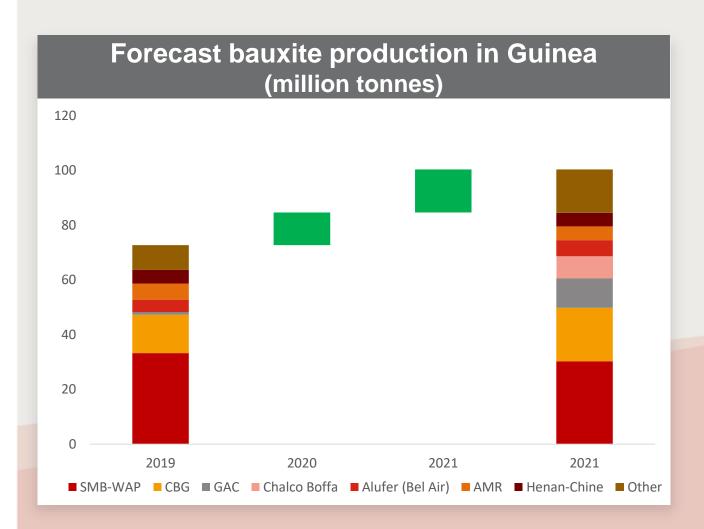
# Global third party bauxite demand will be driven largely by China (and several new RoW refining projects in the next few years)



- Extra alumina production Al Taweelah (2m t) commissioning (at around 70%), Vedanta's Lanjigarh expansion (2m t) commissioning, PT Bintan Alumina Indonesia (1m t) under construction, Ketapang phase II (1m t) under consideration
- China's SGA production on-going growth forecast, totaling 70.6m t (2019), 74.4m t (2020) and 76.5m t (2021)



## Guinean bauxite: not only larger miners but also marginal suppliers are likely to add supply over next two years



Project	2021 forecast production (million tonnes)
SMB-WAP	30.3
CBG	19.5
GAC	10.8
Chalco Boffa	8.1
Alufer (Bel Air)	5.9
AMR	5.0
Henan-Chine	5.0
other	15.8
Total	100.4



# While little infrastructure was installed in Indonesia, Malaysia in their export heyday, significant infrastructure has been installed in Guinea

### Concentration of risks for China in supply from Guinea

- Over half of import needs from a single country
- Guinean Government may require miners to refine in country (query availability of reasonable cost energy?)
- · Guinean community, environmental expectations rising
- Greater freight cost exposure than Australasia





SMB Dapilon port, River Nunez, 22 million tpa capacity



SMB Katougouma port, River Nunez, Boké: 19 million tpa capacity



## Responsible sourcing is another key to success







Kuantan, Malaysia, 2015

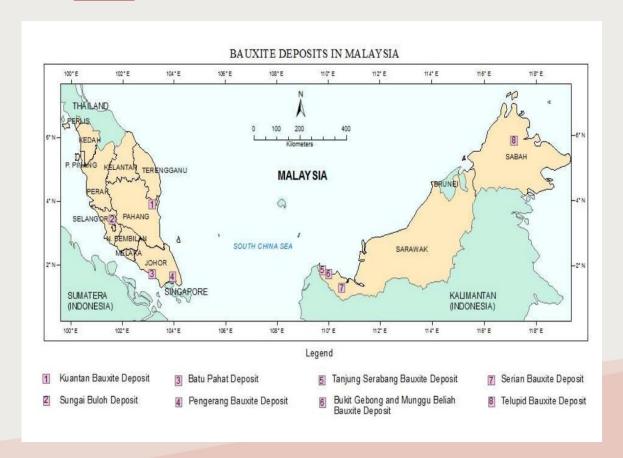


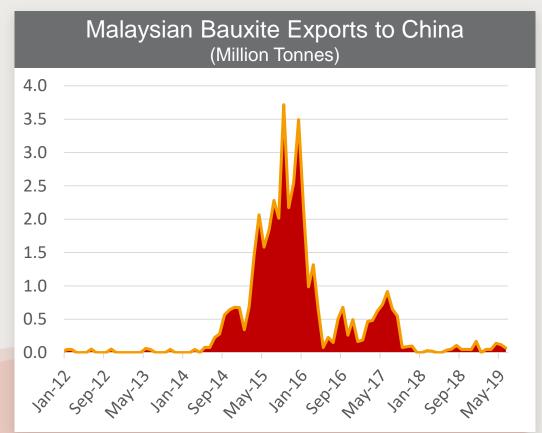
Sangaredi, Guinea, 2018

- Malaysia faced environmental issues after intensive bauxite mining and washing in 2015
- As a direct consequence, Malaysian government introduced a mining ban
- New projects in Guinea reportedly have higher environmental standards and, with no bauxite washing, there are no tailings dams (saving of cost and risk)
- With increasing awareness by local governments, responsible, sustainable mining is another key to success for potential new bauxite projects



# Lifting of Malaysian mining ban and potential acceleration of Indonesian export ban unlikely to significantly impact the market

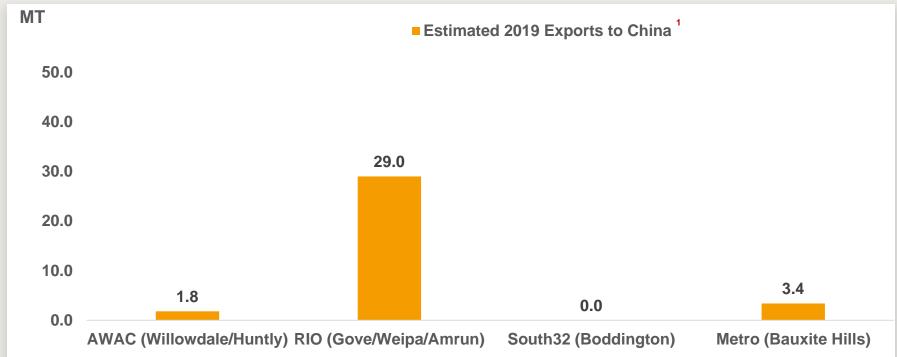




- New Standard Operation Procedures in Pahang likely to drive up production cost and possibly capped at 600,000 t per month.
- China's appetite has shifted to better quality Guinean bauxite. Higher grade bauxite in Malaysia requires washing, hence higher costs
- Johor resource limited; government reportedly axed new project. Some Terengganu exports likely with robust environmental measures
- Potential January 2020 Indonesian bauxite export ban would likely be covered by supply at higher cost from Guinea and Australia

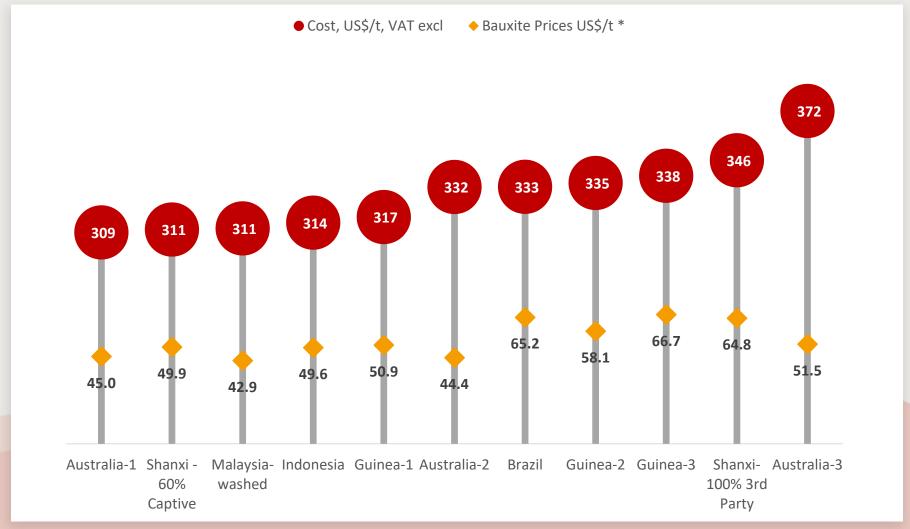


# Australian bauxite exports – Metro and AWAC adding modest growth to previous strong exports from Gove and Weipa



- Brownfields expansions (including Amrun with a net increase in exports of 10 million tpa, and AWAC exports forecast to rise to 1.8 million tonnes in 2019).
- Greenfields potential includes:
  - Aurukun, Glencore (could be 6 million tpa from 2023-2024)
  - Urquhart, Metallica Minerals, near Weipa
  - Bald Hill, Tasmania (bauxite sold now for cement) and Goulburn, NSW, Australian Bauxite
  - further northern Australian mines (like Gulkula, Gumati/Yolngu)

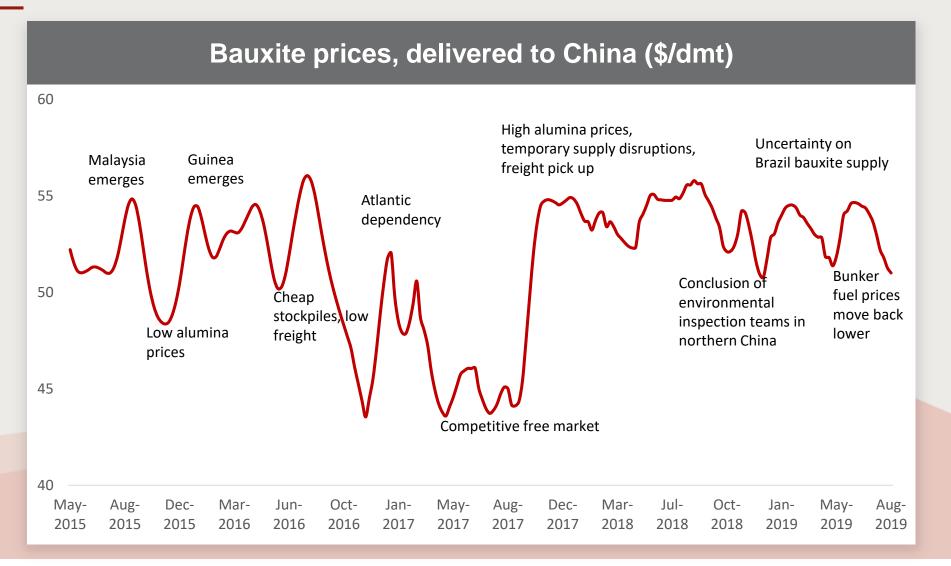
# Economic comparison at a Shanxi refinery using different bauxite sources (1H 2019 average) – closest/cheapest bauxite not always best option



<sup>\*</sup> Imported prices are CIF China, domestic prices are free at works, both excl. VAT

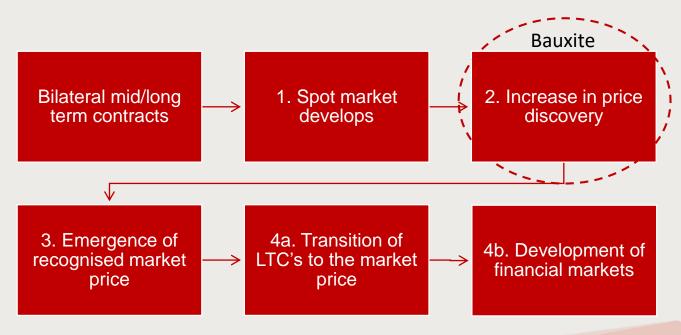


## Pricing largely impacted by supply/demand and freight costs





# Pricing stagnant on usual commodity price evolution path: low spot sales, non-homogenous product; single market price unlikely



Attempts to increase bauxite price discovery:

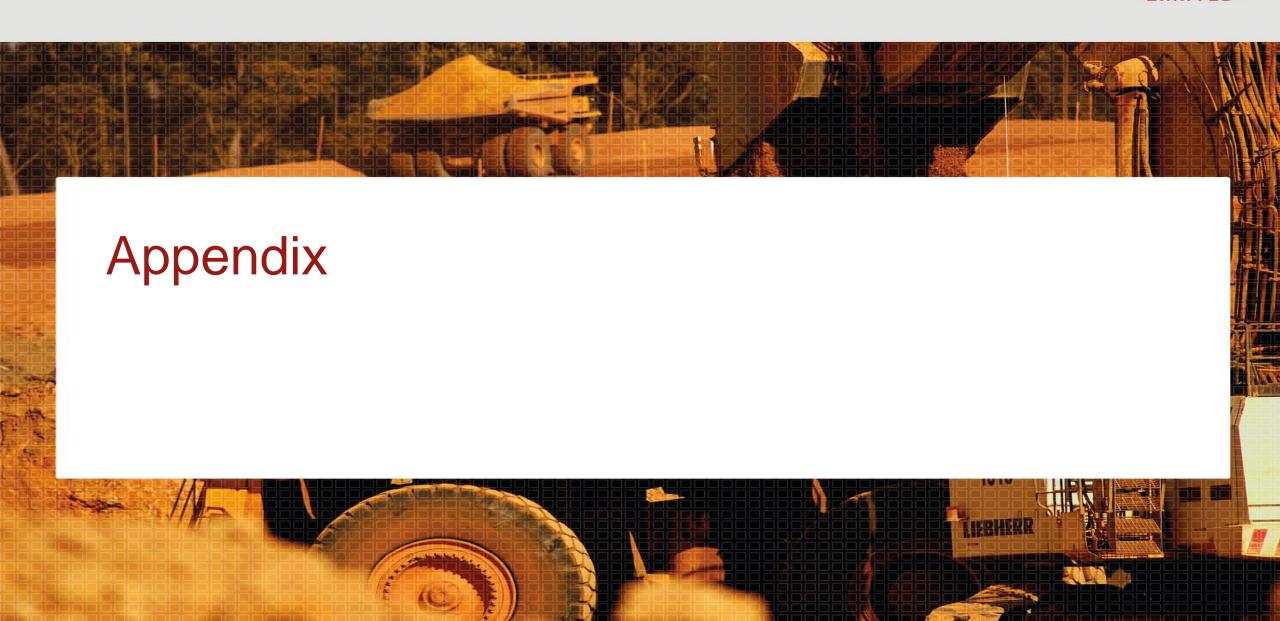
- Most sales under term contract (fixed price or alumina price link); illiquid spot sales level
- Fastmarkets MB FOB Kamsar Guinea and Trombetas Brazil, 2 key standards (monthly)
- CRU BPI-G and CM Group value-in-use normalised, delivered to China prices (weekly)
- Challenge to normalise various bauxite types/quality to single index for price setting-use
- Indices for regional benchmark standards more likely



## In summary

- China's declining bauxite output continues to accelerate bauxite imports
- Global oversupply likely to continue near term, increasing Chinese stocks
- Chinese currently able to be selective on non-core supply sources
- Bauxite oversupply could reverse if supply constraints emerged in Guinea
- Large global reserves but not all will result in long term mines
- Miners with better economic (value-in-use) outcome for refiner preferred
- Responsible sourcing will add cost but will be key for new and sustained project success, given higher scrutiny from multiple stakeholders







## Robust imported bauxite demand growth by China likely over next 10 years

