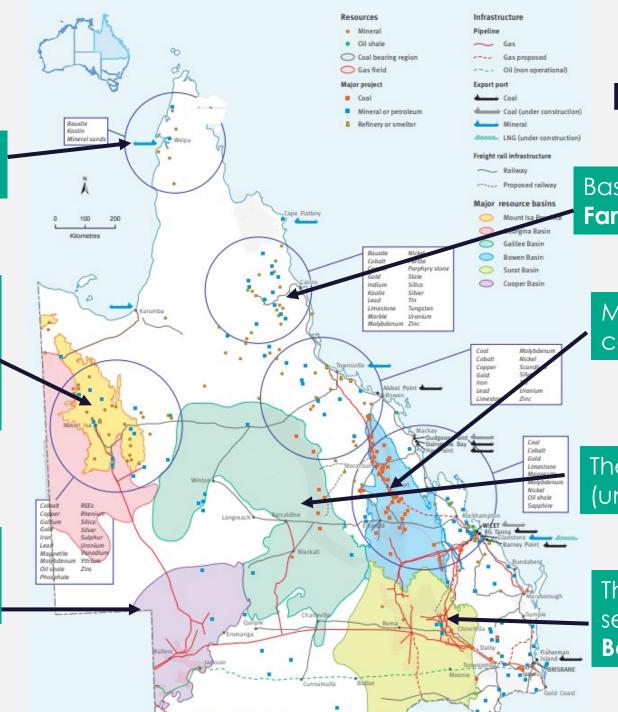


Bauxite - **Cape York**

Metals, uranium

North West Minerals Province

Conventional oil & gas – Cooper Basin



QLD'S EXTRAORDINARY RESOURCE ENDOWMENT

Base & precious metals – Far North Queensland

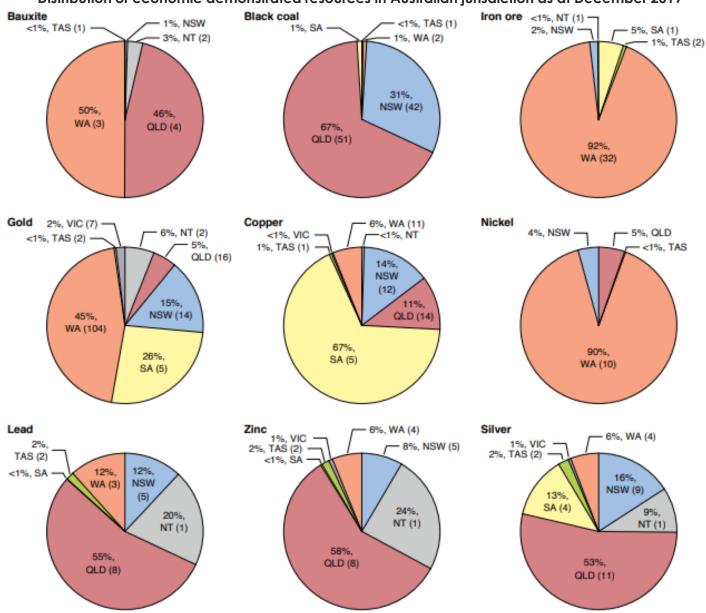
Metallurgical, thermal coal, coal-seam gas – **Bowen Basin**

Thermal coal - **Galilee Basin** (under development)

Thermal coal, coal seam gas – **Surat Basin**



Distribution of economic demonstrated resources in Australian jurisdiction as at December 2019



QLD'S MAJOR DEPOSITS

Queensland's is home to much of Australia's mineral wealth. By economic demonstrated resources, Queensland has a majority of Australia's:

- Coal 67% and 51 operations
- **Lead** 55% and 8 operations
- Zinc 58% and 8 operations
- **Silver** 53% and 11 operations
- Bauxite 46% and 4 operations

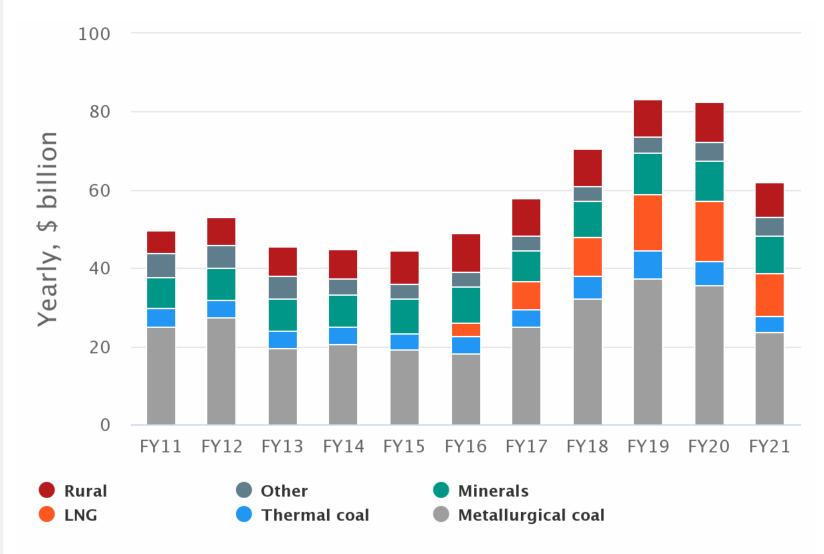


CONTRIBUTION TO EXPORTS

Resources account for ~80% of Queensland's goods exports (by value).

In the 12 months to January 2021, Queensland's top three exports by value were:

- Metallurgical coal (~\$24 billion)
- **LNG** (~\$11 billion)
- Minerals (~\$10 billion)



Source: QLD Treasury



Commodity market scoreboard

Sector	Drivers	Bearish-Neutral-Bullish
Energy	 Improving mobility data Refiners' oil utilisation OPEC+ production increase US shale oil production Inventories drawdown 	Weak Neutral Strong
Precious metals	 US 10-yr yield Inflation expectations USD movement ETF flows Improving physical demand 	Weak Neutral Strong
Industrial metals	 Industrial activity Exchange metal inventories Improving supplies from S. America 	Weak Strong
Bulks	 China steel profitability and production Steel inventories destoking Australian and Brazilian iron ore exports 	Weak Neutral Strong

ANZ IS UPBEAT

Given the times, ANZ's global commodity scorecard is quite positive.

For Queensland, ANZ's analysis calls out:

- LNG exports strong
- Chinese coal stocks falling
- Aluminum supply tightening



BULL(ish) IN A CHINA SHOP

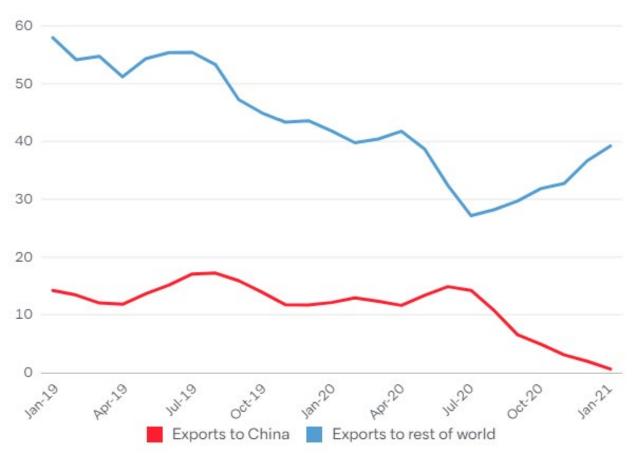
China's focus on Australian coal exports have disrupted seaborne markets.

High quality Queensland coal is finding new markets – often replacing coal cargos diverted into China.

The Commonwealth's five-year outlook is relatively upbeat on coal values. (March 2021)

Australian coal exports sanctioned by China shift to other markets

AUD BILLIONS, ANNUALISED 3-MONTH MOVING AVERAGE



Source: Lowry Institute (8 April 2021)



WIND TOWER

Wind towers don't grow on trees.

A typical 3 MW wind tower needs plenty of mined and manufactured components.

Good news for steel demand (iron ore & coking coal), copper, aluminum, zinc, and new economy minerals.



Source: Visual Capitalist

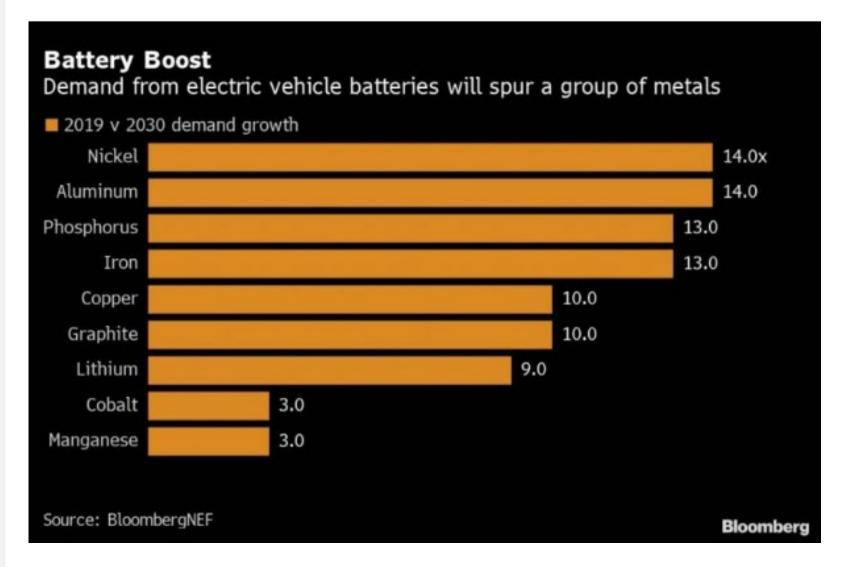


BATTERY BOOST

Bloomberg estimate the growth in demand for key battery minerals out to 2030.

- 14x the demand in aluminum
- 10x the demand for copper
- 10x the demand for graphite
- 3x the demand for cobalt

All good news for Queensland





IS COPPER THE NEW OIL?

Goldman Sachs say a copper supply crunch is looming as demand soars.

They are bullish on price to rise by up to 60% by 2025.

Robert Friedland is predicting

"psychedelic demand" as copper

underpins the renewable energy
revolution.

Groovy!



LME COPPER HISTORICAL PRICE GRAPH



THE METALLURGY OF RECYCLING



Constructing a smart phone requires gold, silver, palladium, platinum, aluminum and copper.

Are there opportunities in the deconstruction of e-waste?

One tonne of recycled iPhones could deliver up to:

- 300 times more gold than a tonne of gold ore and
- 6.5 times more silver than a tonne of silver ore

Source: BBC



