



# PHOSPHATE DEVELOPMENT AND COPPER EXPLORATION IN SOUTHERN BRAZIL

November 2019

AGUIA Resources Limited

ASX: AGR

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The Mineral Resource estimate was prepared in accordance with the standards set out in the 2012 edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code)’. The JORC Code is the accepted reporting standard for the Australian Stock Exchange Limited (“ASX”). The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr Fernando Tallarico, who is a member of the Association of Professional Geoscientists of Ontario. Dr Tallarico is a full-time employee of the company. Dr Tallarico has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Dr Tallarico consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The scientific and technical information contained in this presentation pertaining to the Mineral Resource estimate on the Andrade copper deposit has been reviewed and approved by Mr. John Makin, MAIG, a Senior Geologist at Roscoe Postle Associates Inc. Mr. Makin qualifies as a Competent Person as defined in the JORC Code and a Qualified Person as defined by NI 43-101. He is independent of the Company at the time of this report. The results of the Mineral Resource Statement were described in greater detail in the NI43-101 compliant technical report subsequently filed on SEDAR in accordance with applicable securities laws.



# INTRODUCTION

# BRAZILIAN RESOURCE COMPANY

ASX listed - AGR

- Total land position 1,630 km<sup>2</sup> (applied for and granted) phosphate and copper

## Phosphate assets advancing towards production

- **Três Estrades EIA Approved**  
Preliminary license has been granted
- **Três Estradas BFS complete**
- **99.6Mt at 3.76% P<sub>2</sub>O<sub>5</sub> and 33.7% CaO**
- Operate in southern state of **Rio Grande do Sul**
- **No local supply of phosphate**
- **Mato Grande, Joca Tavares and Lucena** trial mining study



## Significant copper targets around Três Estradas

- Rio Grande copper belt in **Rio Grande do Sul**
- **Andrade** Copper Project **10.8 Mt at 0.56%** copper (JORC 2012) <sup>1</sup>
- Extensional drilling planned now
- **2<sup>nd</sup> target Primavera** 3.5km away
- 6 other copper targets close to Andrade
- Copper minerals to be tested for leaching

# NEW STRATEGIC DIRECTION

**100% new board** following shareholder vote June 2019

**Phosphate cashflows fund copper exploration and dividends**

- 1. Move entire operation to Brazil** and reduce offshore administration costs
- 2. Advance phosphate to cashflow**  
Direct Application Natural Fertilizers (**DANF**)
  - i. Much lower capital
  - ii. Much faster route to markets via trial mining
  - iii. 4 projects (previously 1)
  - iv. GM Phosphate has commenced
  - v. BFS 2<sup>nd</sup> stage growth strategy
- 3. Copper Resource growth at Andrade Project** plus 6 satellite targets
- 4. Fernando Tallarico** appointed Managing Director  
**Internal reward** structures being focused on team in Brazil



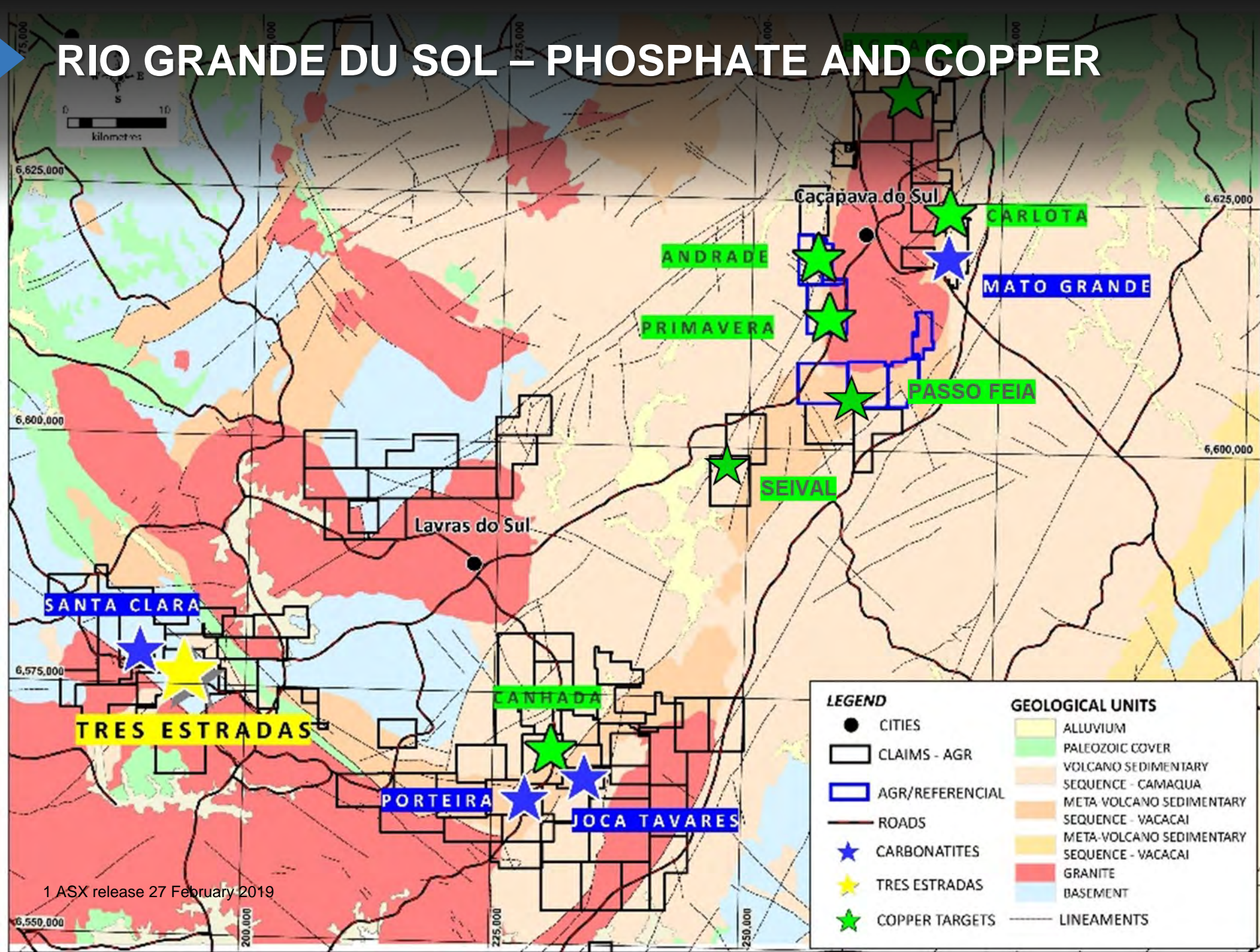
*“Began as a phosphate company, recognized our areas had extensive copper mineralisation”*

*“Copper is ~40x Phosphate price”*

- “Strong demand fundamentals*
- Phosphate = Food production*
  - Copper = renewable energy”*

*“New board, same management in Brazil”*

# RIO GRANDE DO SUL – PHOSPHATE AND COPPER



# PHOSPHATE STRATEGY



## Strategy - DANF

- EIA for **Três Estrada Phosphate Project (TEPP)** approved
- **Preliminary License granted**. BFS complete in 2018<sup>1</sup>
- **Project Development Plan** has commenced
- Investigate Direct Application Natural Fertilizer (**DANF**) opportunities
- Trial mining to be assessed at 3 projects (Mato Grande, Joca Tavares, Lucena)
- **Commence cashflow**

## Phosphate

- No local supply in southern Brazil
- Growth in Uruguay, Argentina and Paraguay

# COPPER STRATEGY

- ✓ Built land position – **5-year portfolio**
- ✓ Establish core project – **Andrade**
- ✓ Conduct widespread exploration
- ✓ 6 copper targets identified
- Conduct further geophysics to best define drill targets
- Drill extensions to Andrade
- Test copper targets for leaching to produce copper metal
- Drill targets to identify additional resources
- Applications converted to Exploration Licenses

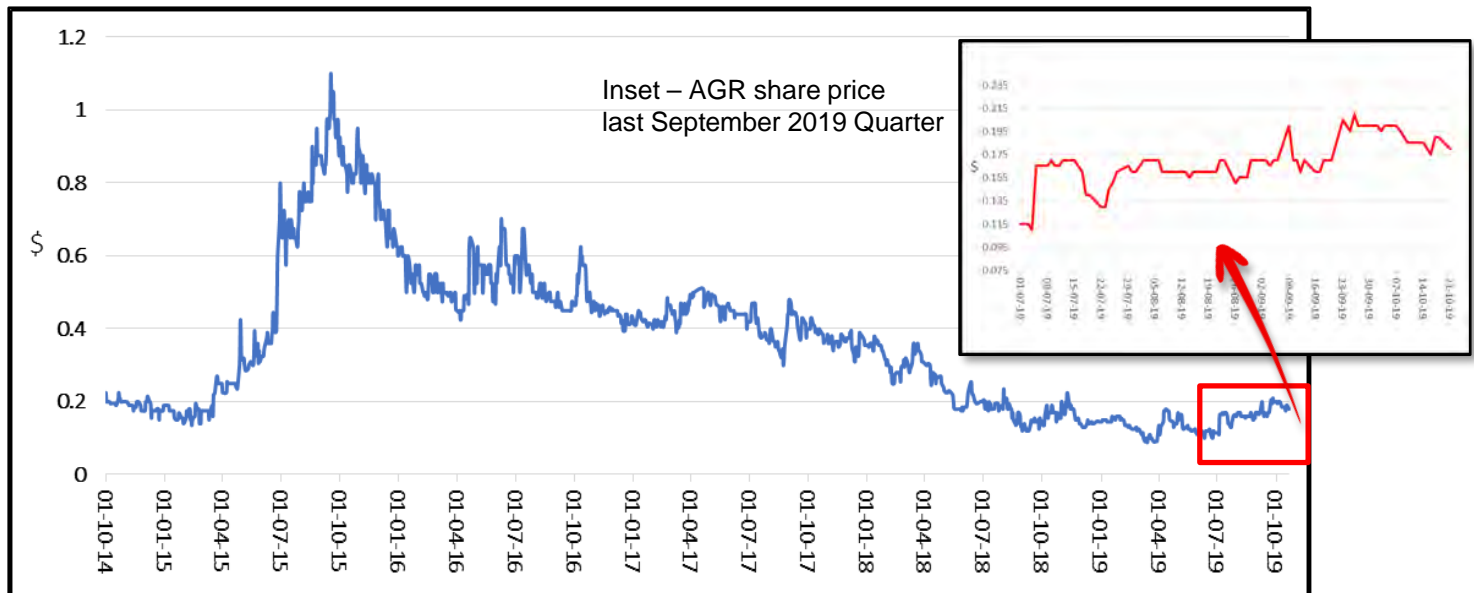




# CAPITAL STRUCTURE

ASX Listed. Delisted from TSX 16 September 2019.

Item	Number	Item	Number
Ordinary Shares	200.8m	Options (12c to 72c)	30.2m (\$19.8m)
Share Price 52-week range	9c to 23c	<b>Fully Diluted</b>	<b>231.0m</b>
Market Capitalization Undiluted at <b>18c</b>	\$36.2m	Market Capitalization Diluted at <b>18c</b>	\$41.6m
<b>Cash in Bank</b>	<b>\$1.3m</b>	22 September 2019	\$2.2m at 15c



AGR 5-year share price  
1 October 2014 to 11 October 2019

# DIRECTORS AND MANAGEMENT TEAM

Name	Role	Experience
<b>Fernando Tallarico</b>	Managing Director	Ph D. 30-year geologist in South America. Vale, Falconbridge, BHP. Assembled portfolio in Brazil.
<b>Christine McGrath</b>	Non Executive Chairman	30-year international commercial lawyer
<b>Stephen Ross</b>	Non Executive Director	25-year geologist and ASX company director. Based in Brazil. Former MD Manas Resources
<b>Jonathan Guinness</b>	Non Executive Director	30-year geologist, recently Global Head of Resources, Energy and Infrastructure at ANZ Bank
<b>Martin McConnell</b>	Non Executive Director	35-year Banking and Advisory services, risk management and insurance with global exposure to natural resource entities
<b>Luiz Clerot</b>	GM Phosphate Development	Senior Geologist, over 16 years of experience in mining industry, including exploration development and mining. Formally Country Manager Brazil for Harvest Minerals Limited (Direct application natural phosphate)
<b>Lucas Galinari</b>	GM Exploration	Senior Geologist, over 8 years with the Aguia exploration team and based in Cacapava do Sul overseeing both phosphate and copper / gold exploration
<b>Marina Carvalho</b>	GM Finance & Admin	Post grad in Finance and business management. More than a decade's experience coordinating finance, accounting, budgeting, corporate governance, HR and IT departments for small mining companies. Recently moved from part time to full time role with Aguia
<b>Thiago Bonas</b>	Senior Resource Geologist	Geologist specializing in resource modelling and audit, formally at Forbes Manhattan, SRK, Bunge. Siting member of the CBRR (Brazilian institute for geology resource modelling standards)
<b>Jose Fanton</b>	Aguia Ambassador	Geologist, semi retired and remains part time as senior member of the team. Heavily involved with community and government relations as well as geological strategy and special projects.

# BRAZIL IS OPEN FOR MINING INVESTMENT

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*“In the economy we will bring the mark of trust, national interest, free market and efficiency. Confidence that contracts and properties will be respected.”\**

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## Brazil Agriculture Industry

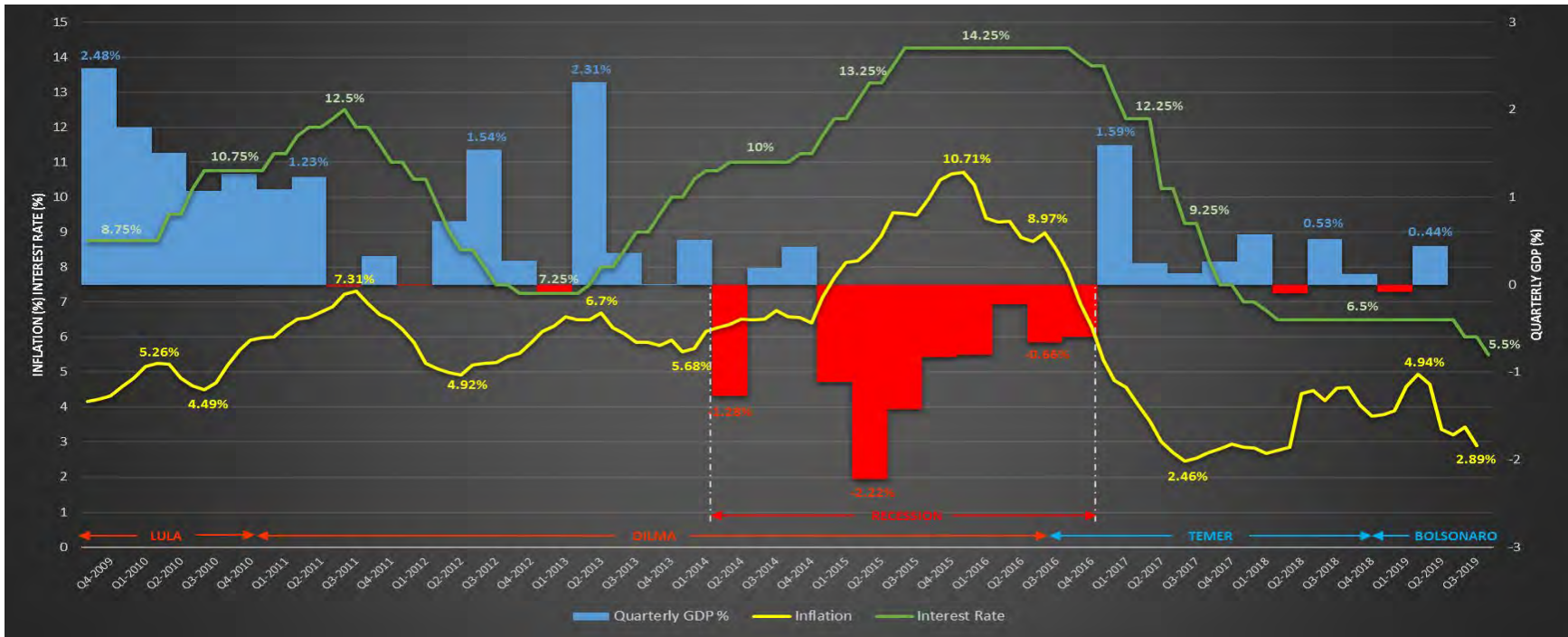
- 29% of GDP
- 46% of exports
- #1 exporter of Coffee, Sugar and Soybean



**President Jair Bolsonaro**

- “A New Brazil”
- Pro Agriculture and Mining
- \*Inauguration speech 1 Jan 2019

# BRAZIL IS BACK ON TRACK FOR MASSIVE GROWTH



**Mr. Paulo Guedes, Brazil** – PhD Economist at the University of Chicago  
 Finance Minister of the Year, Latin America by Global Market “*Transform Brazil into an open society and on the path to prosperity!*”

- Management team of ca. 25 University Chicago PhD’s known as “The Chicago Boys”
- Lowest Inflation in the past 22 years
- The current Interest Rate is the lowest in the country’s history
- Pension Reform Approval with savings in excess of R\$ 1 trillion
- Privatization State owned companies and properties in excess of R\$ 100 billion

An aerial photograph of a large industrial phosphate processing plant. The facility includes several large cylindrical storage tanks, conveyor belts, and various processing structures. In the background, a large body of water is visible, with a city skyline in the distance under a clear blue sky. A large red ship is docked at a pier in the foreground.

# PHOSPHATE and PHOSPHATE ASSETS

# RIO GRANDE DU SOL – PHOSPHATE PROJECTS

- Cites/Field Office
- Exploration Targets
- Roads
- Carbonatites
- Lineaments
- Alluvium
- Paleozoic Cover
- Volcano Sedimentary Sequence - Camaqua
- Meta-Volcano Sedimentary Sequence - Vacacai
- Meta-Volcano Sedimentary Sequence - Porongos
- Granite
- Basement

Regional geological map highlighting the Três Estradas and Joca Tavares carbonatites and the exploration targets: Santa Clara, Mato Grande, Porteira and Santa Ines.

**Santa Clara**

Caçapava do Sul  
Field Office

**Mato Grande**

Lavras do Sul  
Field Office

**Três Estradas**

**Joca Tavares**

**Poteira**



6 625 000mN

6 600 000mN

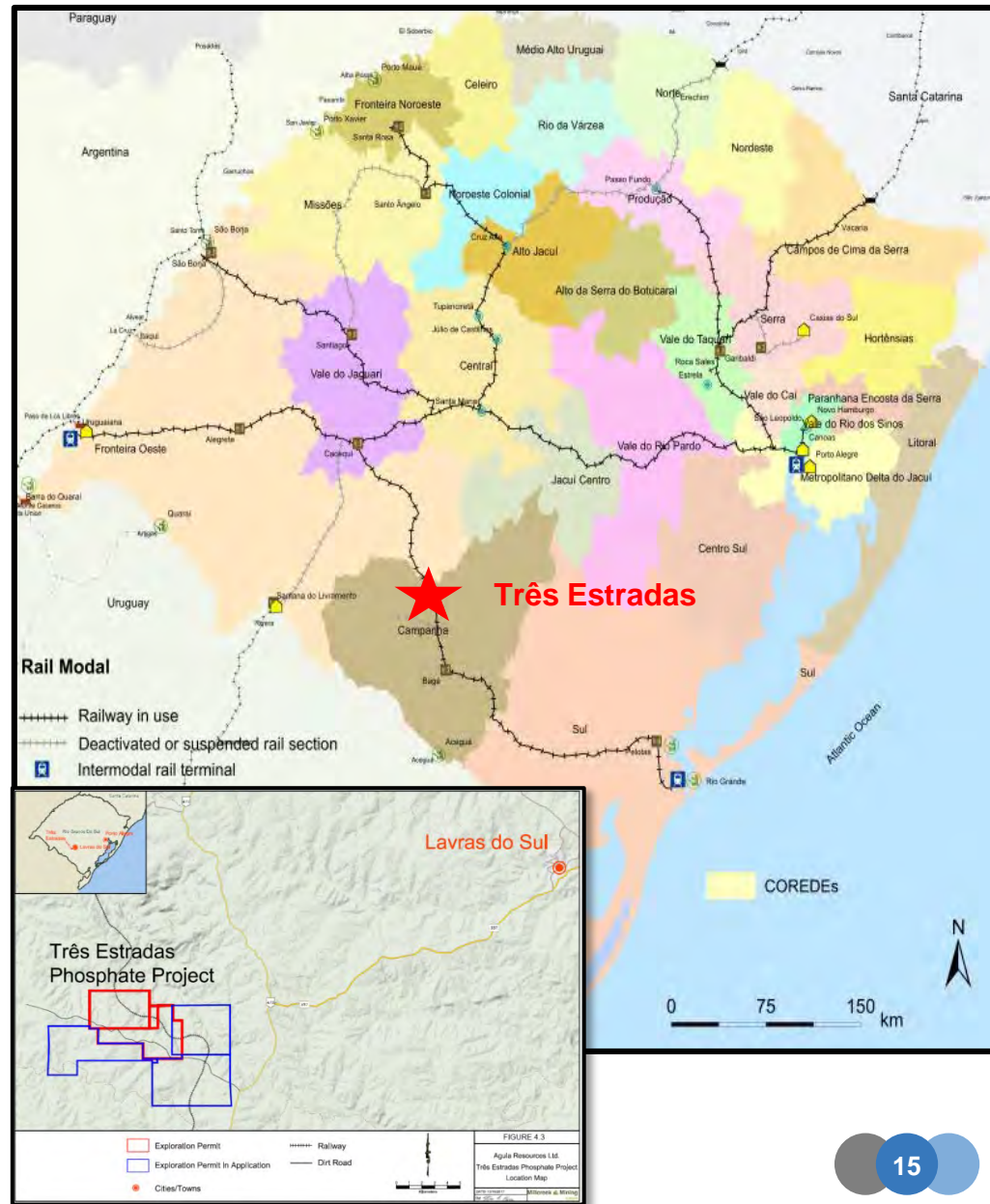
6 575 000mN

# TRÊS ESTRADAS PHOSPHATE PROJECT

1. EIA approved. Preliminary License (LP) awarded
2. Open pit project
3. BFS<sub>1</sub> for Phosrock completed March 2018
4. Direct Application Natural Fertilizer (DANF) Development Plan

Strategy for DANF is being developed now

- Phosphate present in rock as apatite (carbonatite) and can be sold as; and / or
  1. Direct Application Natural Fertilizer
  2. Concentrated for sale as “Phosrock” to fertilizer plants



# EIA APPROVED PRELIMINARY LICENSE GRANTED



## Successful final community consultation completed

- **Environmental Impact Assessment approved and Preliminary License (LP) granted**
- BFS Confirmed +100MT Mineral Resource<sup>1</sup> supports min 16-year life of Phosrock production + additional 20 years of aglime production
- BFS Production of 300,000 tpa Phosrock and 1 MTpa aglime supplied to local agriculture market 100% import reliant
- **Direct Application Natural Fertilizer (DANF) is being studied as a development option now**

## DANF is a low-cost and fast route to market

<sup>1</sup>36 Mt Measured @ 4.01% P<sub>2</sub>O<sub>5</sub>; 47 Mt Indicated @ 4.18% P<sub>2</sub>O<sub>5</sub>; 21.8 Mt Inferred @ 3.67% P<sub>2</sub>O<sub>5</sub>



# KEY PERMITS FOR MINING

Preliminary License (LP)	Installation License (LI)	Operation License (LO)
<ul style="list-style-type: none"><li>• Most involved permit milestone to obtain</li><li>• Entails location, social and environmental approval of the project based on field studies and public hearings</li><li>• Awarded by the Environmental Protection Agency of the State of Rio Grande do Sul (FEPAM)</li><li>• Establishes requirements to be fulfilled in the engineering design of the project including environmental and social aspects</li></ul>	<ul style="list-style-type: none"><li>• Provides authorization to initiate construction</li><li>• Obtain by:<ol style="list-style-type: none"><li>i. fulfillment of LP conditions;</li><li>ii. approval of the mine development plan (PAE) which also demonstrates project economic feasibility; and</li><li>iii. Approval of the Basic Environmental Plan (PBA)</li></ol></li></ul>	<ul style="list-style-type: none"><li>• Grant of Mining Concession by Mining and Energy Ministry<ul style="list-style-type: none"><li>• Allows company to initiate mining plus processing of phosphate</li></ul></li><li>• Requires inspection of constructed mine and plant to ensure compliance with codes</li><li>• Granted once all aspects of the approved project design are implemented in accordance with the LP and LI</li><li>• Valid in increments of four to ten years and can be renewed as necessary until end of mine life</li></ul>

# DIRECT APPLICATION NATURAL FERTILIZER - DANF



DANF products compete with chemically derived fertilisers, but has distinct **ethical advantages**;

- Natural organic product
- Apply for organic certification **ECOCERT**
- Environmental impact benefits
  - Slow release;
    - Reduces groundwater contamination (eutrophication)
    - Adds residual micro-nutrients
  - Lower
    - Deforestation via increased crop yields / productivity
    - CO<sub>2</sub> emissions - consumed locally - not transported globally
    - Water use during production
  - No tailings dam
  - No salt by-product from chemical plants

# TRÊS ESTRADAS PHOSROCK

## Phase 1 Soft ore Higher Grade Sapolite

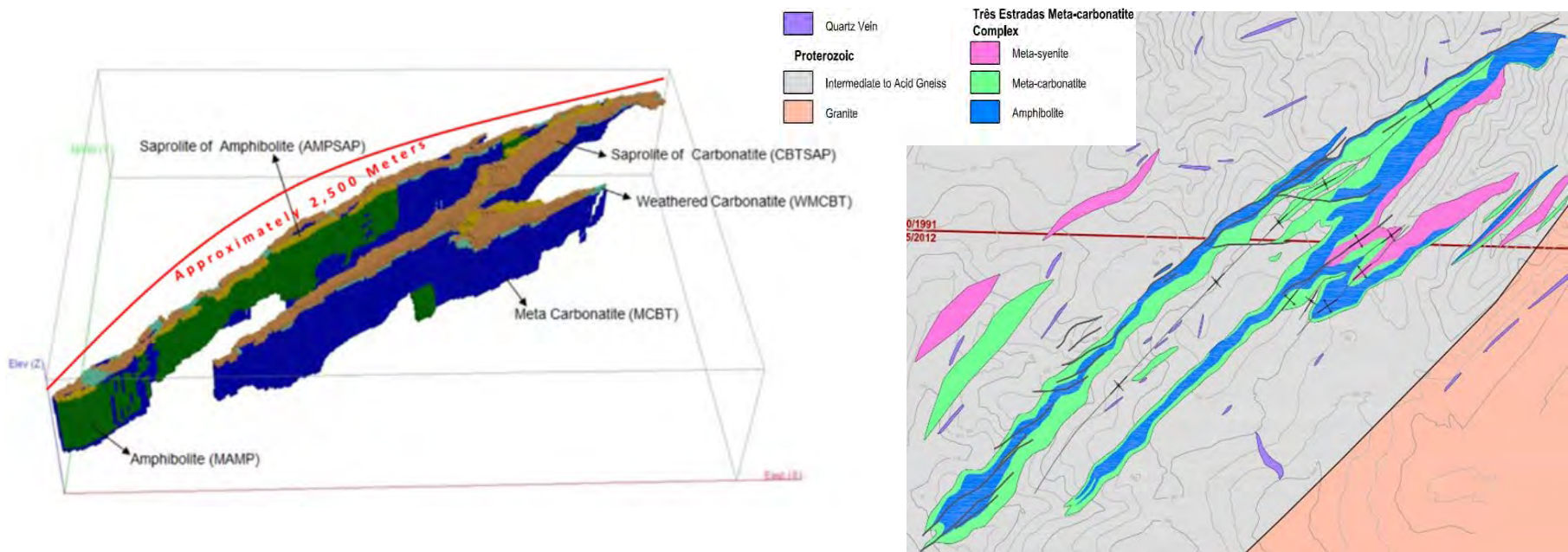
- Mine high grade oxidized ore at surface
- Low strip ratio
- Low processing costs

## Phase 2 Hard ore Carbonatite

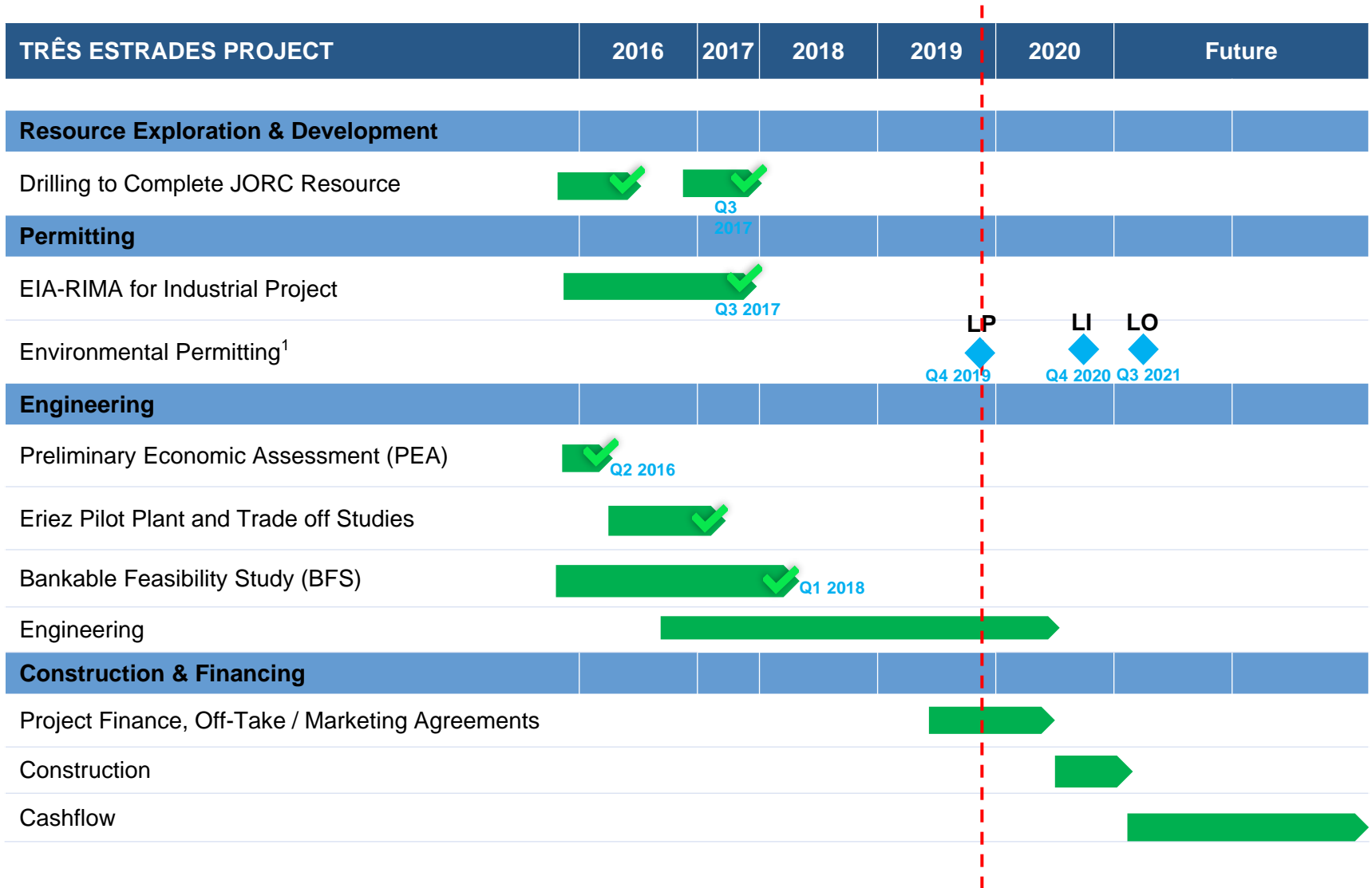
- Mine lower grade carbonatite ore & produce aglime by-product
- Expand processing plant

## Phase 3 Reclaimed from stockpile Aglime

- Reclaim stockpile of stored aglime for sale to local agriculture market



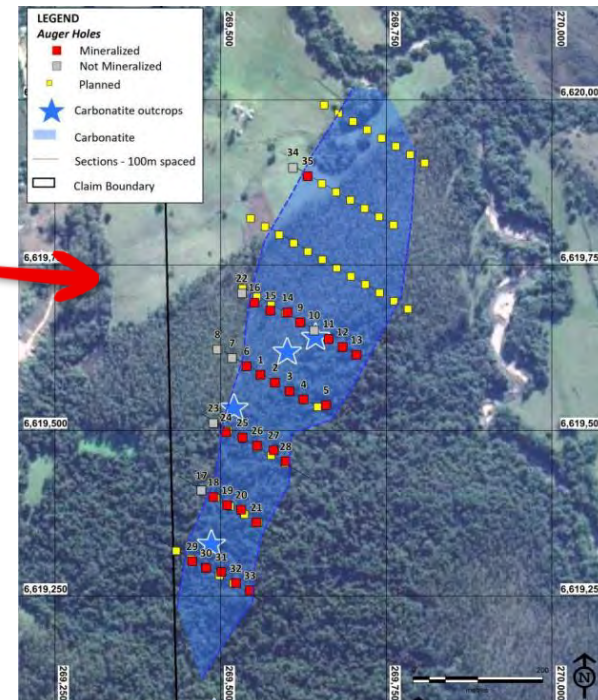
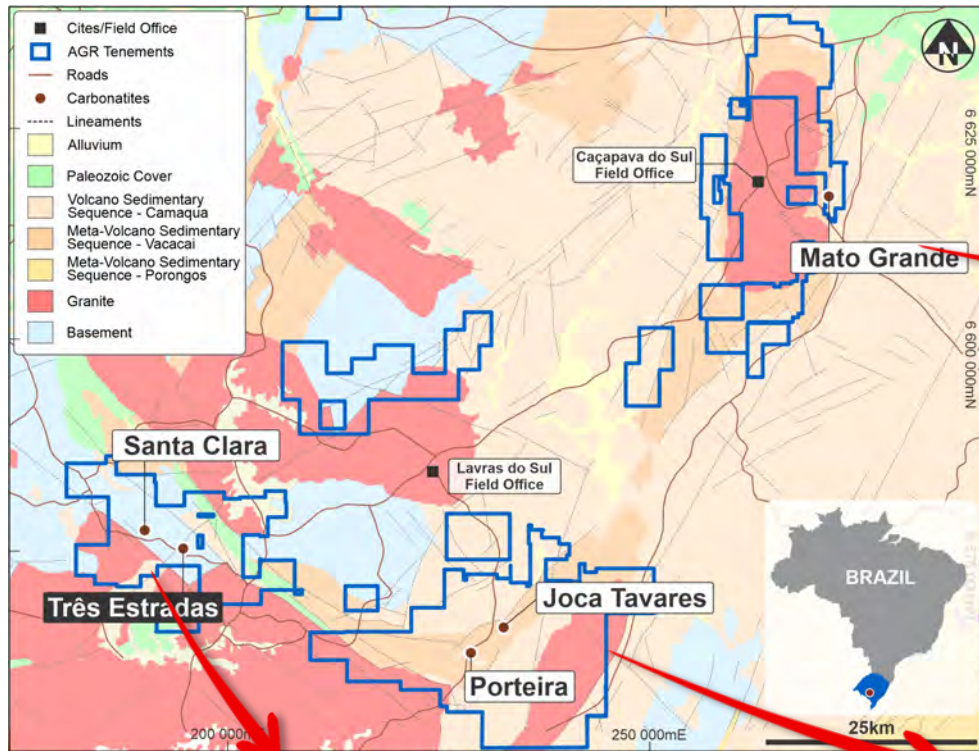
# SCHEDULE AND KEY MILESTONES



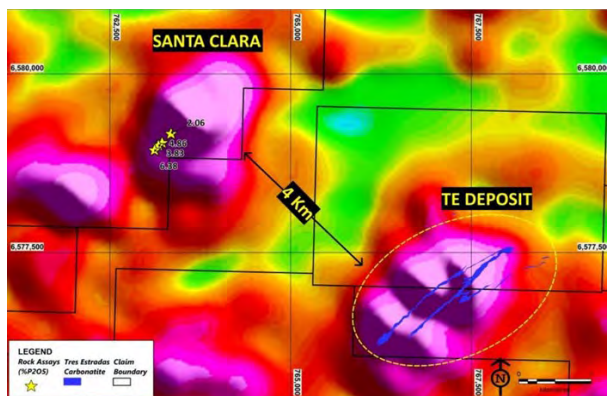
<sup>1</sup> LP = Preliminary License , LI= Installation License, LO=Operating License

# PHOSPHATE REGIONAL TARGETS

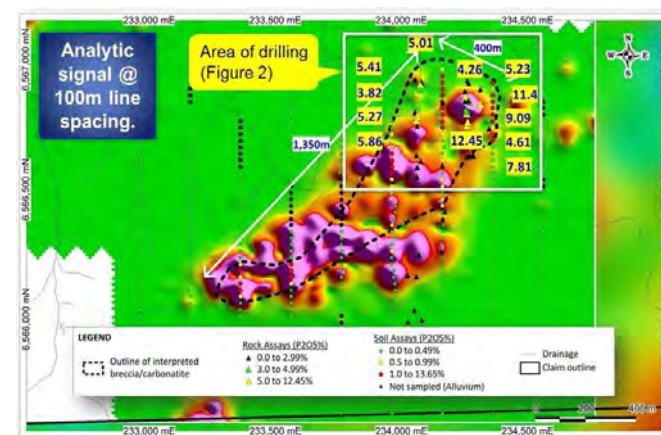
## Mato Grande



## Santa Clara



## Joca Tavares

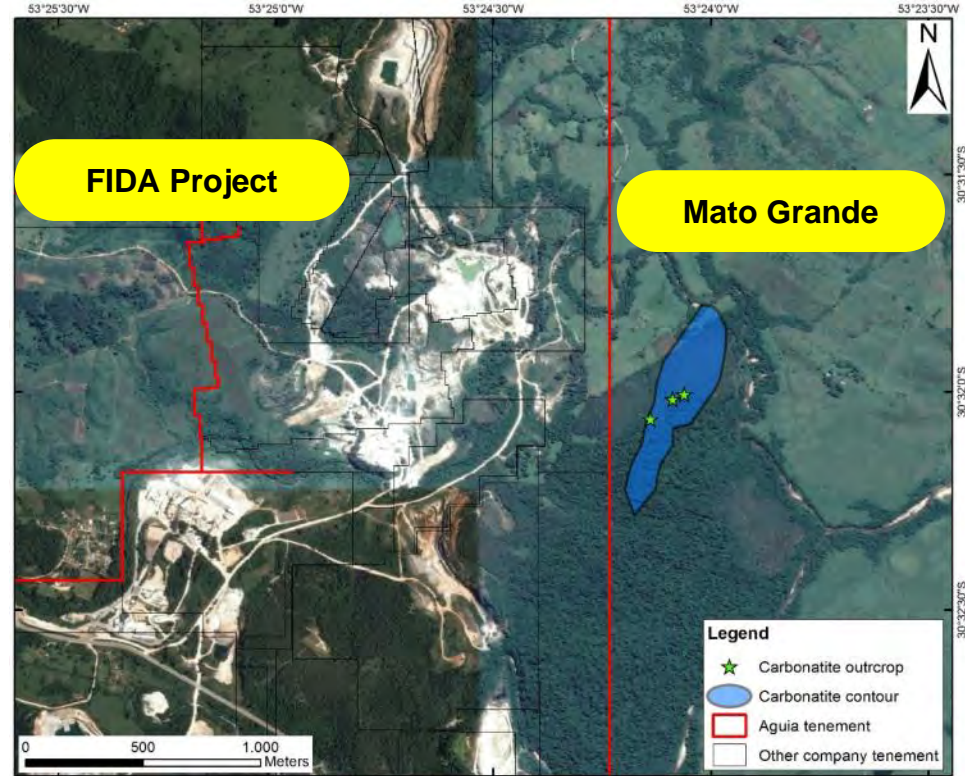


<sup>1</sup>See ASX release 9<sup>th</sup> December 2015, <sup>2</sup>See ASX release 8<sup>th</sup> June 2016, <sup>3</sup>See ASX release 16<sup>th</sup> January 2018

# MATO GRANDE PHOSPHATE PROJECT

## Trial mining license work underway

- FIDA – large agricultural lime (Ag Lime) producer in Southern Brazil
- Mato Grande Located within 500m of the FIDA limestone mine
- Local demand for product which can be serviced by existing infrastructure



# MATO GRANDE GEOLOGY

Mato Grande drill testing shows a deposit of significant scale and grade<sup>1</sup>

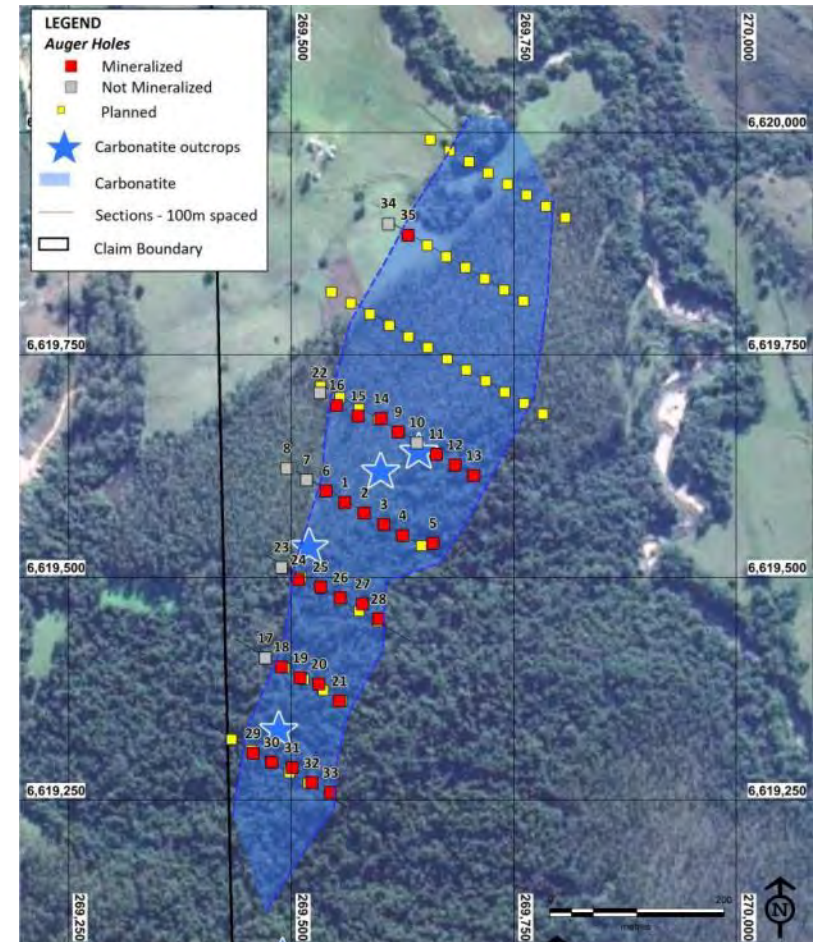
## Exploration Work Performed

- Agua conducted an auger drilling program over Mato Grande carbonatite
- 28/35 auger holes encountered mineralization
- Historical data indicated up to 8.38%  $P_2O_5$  in fresh carbonatite samples
- Auger drilling indicated grades of up to 11.71%  $P_2O_5$
- Ground magnetics and gamma survey underway

## The structure of the deposit indicates significant size

- The carbonatite is a 700m long by 200m wide intrusion in a structural setting similar to the carbonatite at Três Estradas
- Auger drilling confirmed shallow saprolite mineralization
- A significant interval showed 9.0m of mineralization from surface grading 7.37%  $P_2O_5$

## Drilling on Mato Grande



# JOCA TAVARES PHOSPHATE PROJECT

## Trial mining license work underway

- JORC Resource of 2.75 mt (oxide plus hard rock)<sup>1</sup>
- Located 35km from TEPP
- Containing 430,000t of soft ore to be trucked to TEPP for blending and life extension
- Hard ore of 2.32 mt may be mined in more favourable phosphate environment

Joca Tavares Project - Oxide					
		Inferred	Indicated	Measured	Total
Resources	Kt	147	191	92	430
P <sub>2</sub> O <sub>5</sub> grade	%	7.96	7.28	7.07	7.47
Contained P <sub>2</sub> O <sub>5</sub>	t	11,700	13,900	6,500	32,100

Joca Tavares Project – Hard Rock					
		Inferred	Indicated	Measured	Total
Resources	Kt	182	1,315	823	2,320
P <sub>2</sub> O <sub>5</sub> grade	%	3.94	3.87	3.64	3.80
Contained P <sub>2</sub> O <sub>5</sub>	T	7,200	50,900	30,000	88,100

<sup>1</sup>ASX release 12 July 2016



# LUCENA PHOSPHATE PROJECT



## Trial mining license work underway

- JORC Resource of 55.1 mt<sup>1</sup>
- Located in Paraíba State, NE Brazil
- Sugarcane region – needy for phosphate
- DANF studies planned

### Lucena Project Inferred Mineral Resource<sup>1</sup>

	Tonnes Kt	P <sub>2</sub> O <sub>5</sub> grade %	Contained P <sub>2</sub> O <sub>5</sub> Kt
Inferred Mineral Resource	55,143	6.42	3,540

<sup>1</sup>See ASX release 8<sup>th</sup> April 2013

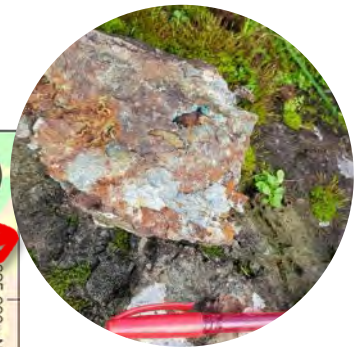


**COPPER AND COPPER ASSETS  
RIO GRANDE COPPER BELT**

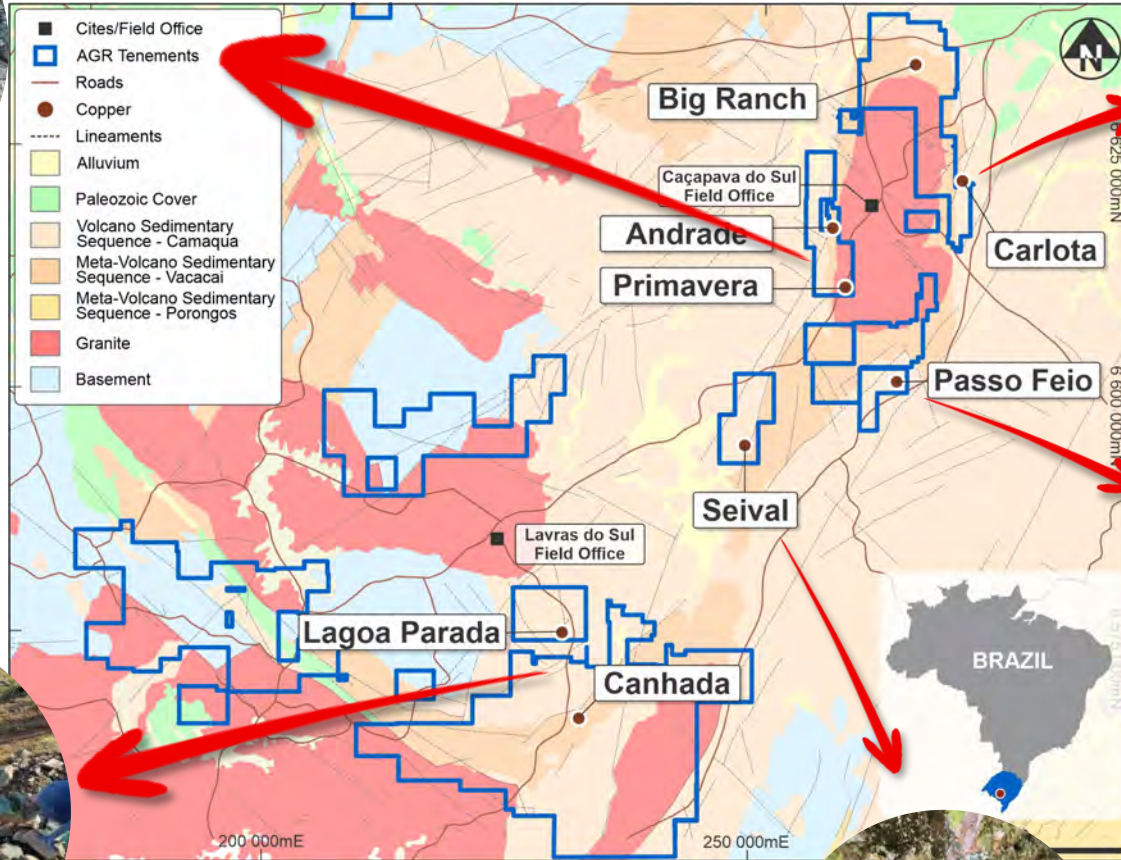
# RIO GRANDE COPPER BELT



Primavera



Carlota



Canhada



Passo Feio Copper  
Camaqua Conglomerates



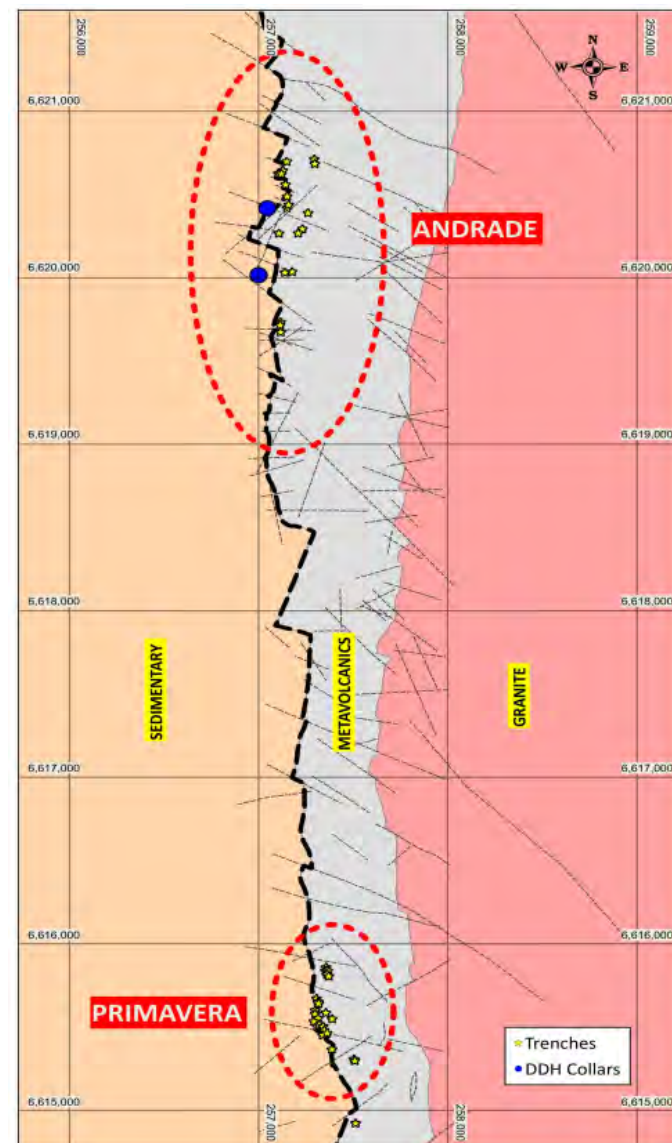
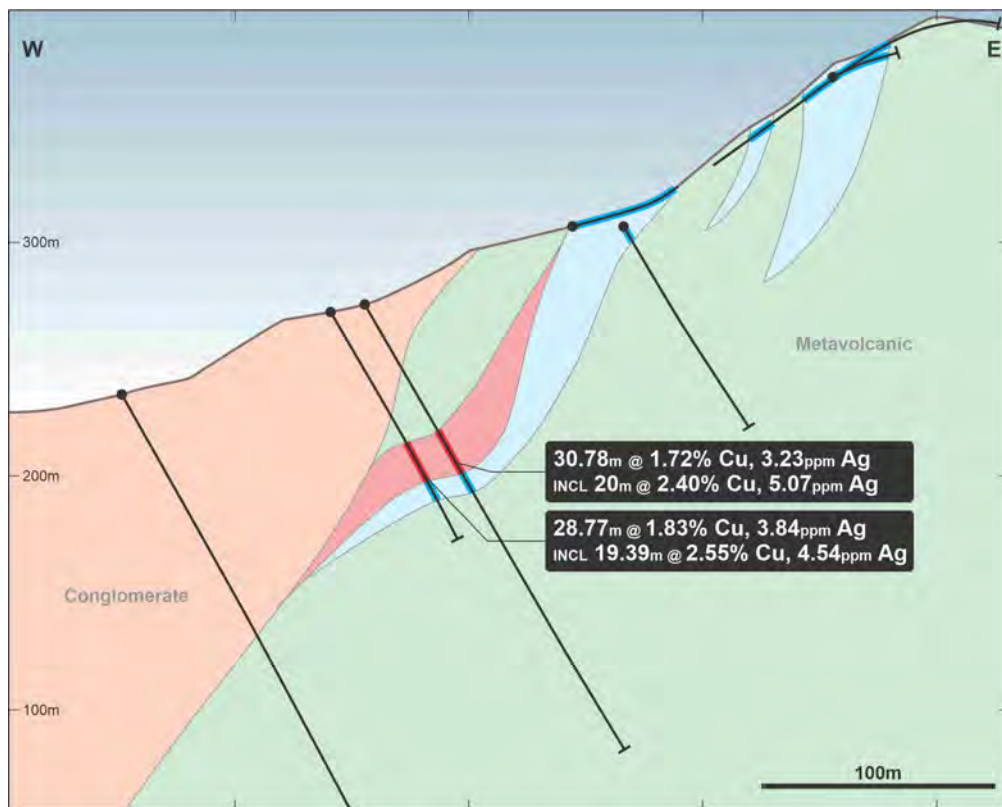
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9km x 3km anomaly  
>4% copper in trenches

**Note:** See ASX releases 27<sup>th</sup> February 2018, 20<sup>th</sup> April 2018, 2<sup>nd</sup> August, 2018, 12<sup>th</sup> September, 2018, 28<sup>th</sup> February, 2019 and 19<sup>th</sup> March 2019

# ANDRADE COPPER PROJECT

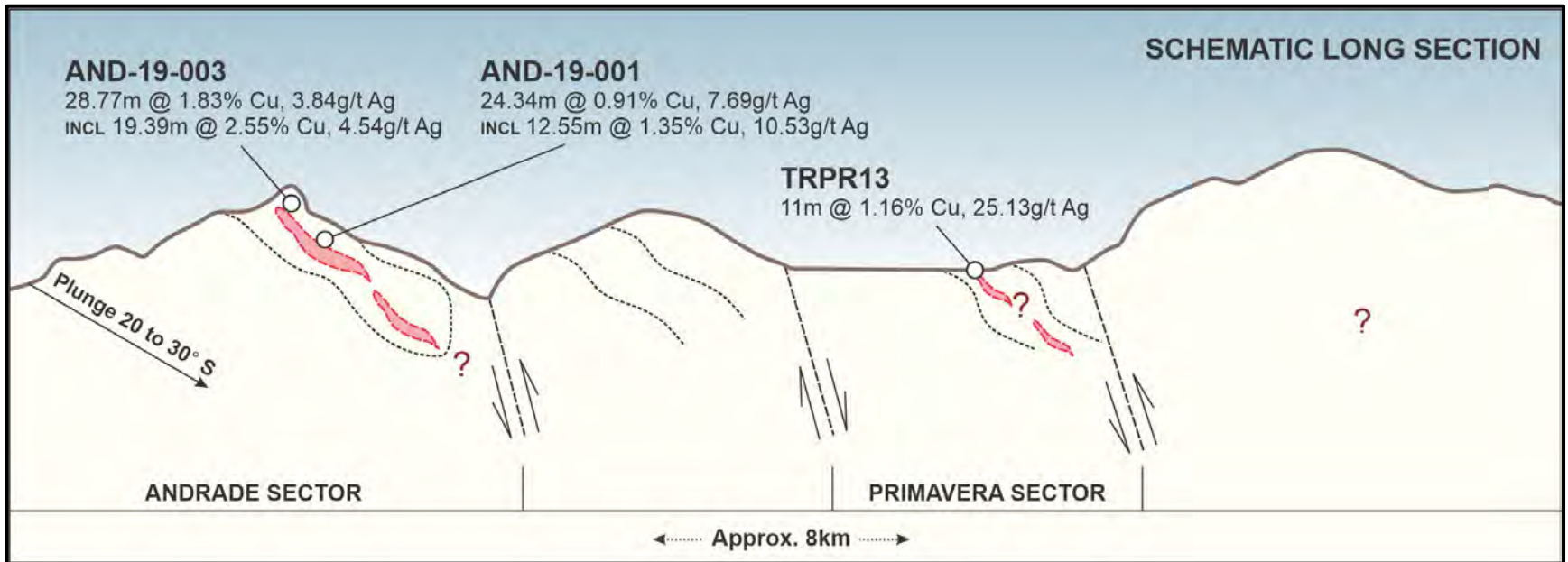
- Recent drilling returned interval of **28.77 metres grading 1.83% copper** from 63.63 metres with a higher-grade zone of **19.39 metres grading 2.55% copper** from 63.63 metres including:
  - 4.35 metres grading 3.57% copper from 65.80 metres
  - 2.25 metres grading 5.40% copper from 76.50 metres
- Total Inferred Mineral Resource **10.8 million tonnes with average grade of 0.567% Cu and 2.56 g/t Ag**
- Intend to add to Maiden Mineral Resource with more drilling



Note: See ASX release 28<sup>th</sup> February 2019, ASX release 19<sup>th</sup> March 2019

# ANDRADE COPPER PROJECT

- Combined **8km strike end to end Andrade to Primavera**



Mineralisation occurs along the contact between metavolcanics rocks at the footwall and younger sedimentary rocks on the hanging wall, defining a prospective trend of some **3.8 km between Andrade and Primavera.**

# RIO GRANDE COPPER BELT

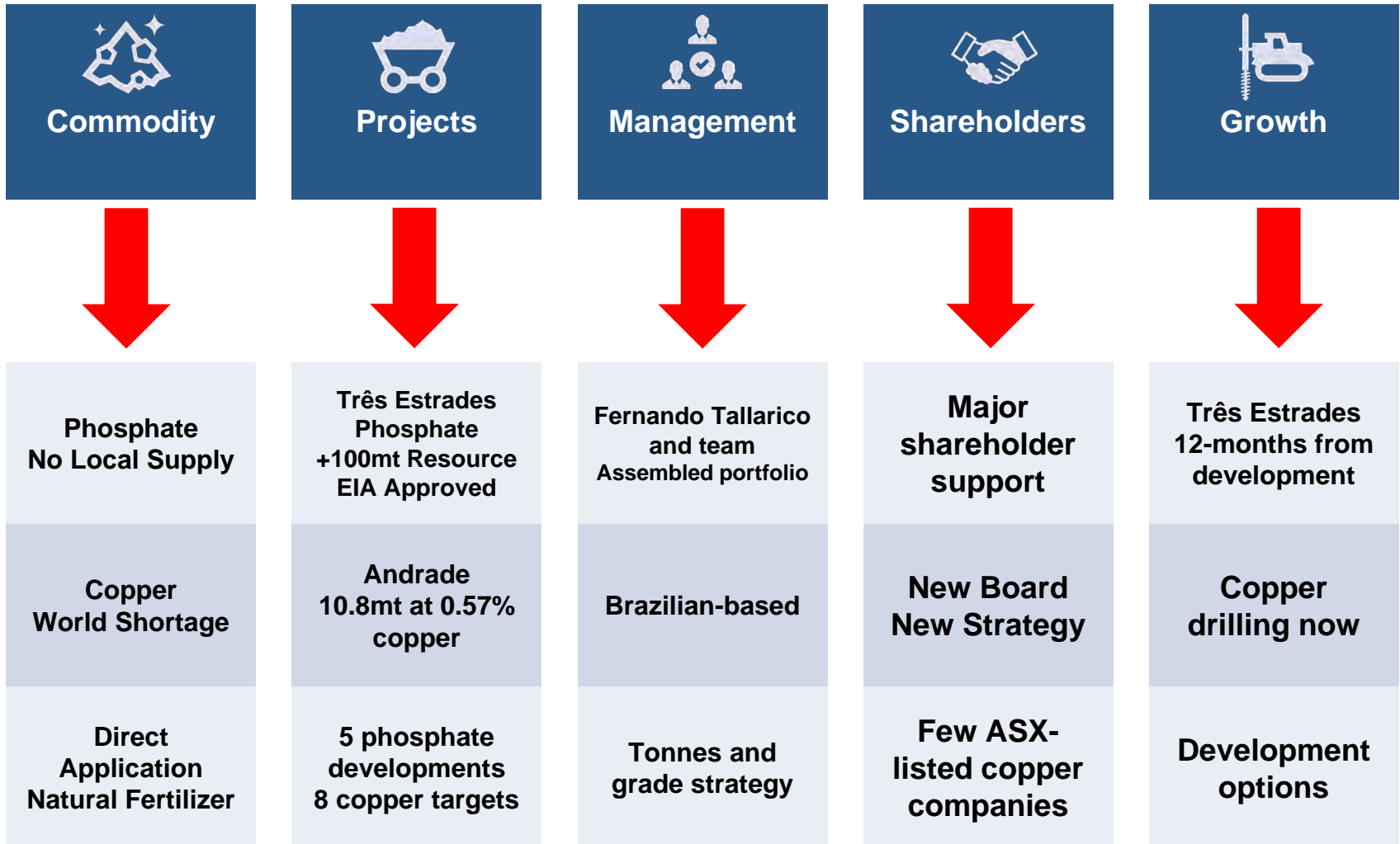
- Mineralisation hosted in a 100km long x 60km wide belt with historical production
- Tenements permitted 861 km<sup>2</sup>
- Further > 400 km<sup>2</sup> under application
- Geological environment prospective including;
  - past producing Camaqua copper mines - Iron Oxide Copper Gold (IOCG) deposits
  - new Zn-Pb project currently being licensed by Nexa Resources (Votorantim Group)



Andrade copper adit

# INVESTMENT HIGHLIGHTS

Near-term phosphate production to fund copper drilling



# COMPETENT PERSONS STATEMENT

The Três Estradas Phosphate Project has a current JORC/43-101 compliant mineral resource which includes Measured Resources of 36 Mt grading 4.01% P<sub>2</sub>O<sub>5</sub>, Indicated Resources of 47 Mt at 4.18% P<sub>2</sub>O<sub>5</sub> and Inferred Resources of 21.8 Mt at 3.67% P<sub>2</sub>O<sub>5</sub>

The Lucena Phosphate Project has an Inferred Mineral Resource of 55.1Mt grading 6.42% P<sub>2</sub>O<sub>5</sub> that is compliant with the JORC 2012 Code

Information in this presentation is extracted from the following reports, which are available for viewing on the Company's website:

**13 November 2019:** *Exploration Update at Carlota*

**17 October 2019:** *Aguia Awarded Key Development Permit*

**18 September 2019** *Exploration Update and Copper Targets Rock Sample Results*

**28 June 2019** *Operational Update*

**22 March 2019:** *Successful Community Consultation Event for Aguia's Três Estradas Phosphate Project*

**19 March 2019:** *Aguia Reports Maiden Resource Estimate for Andrade Copper Deposit*

**7 March 2019:** *Initial Scout Drilling at Big Ranch Identifies Pervasive System of Sulphide Mineralisation*

**27 February 2019:** *Aguia Acquires Andrade Copper Project & Drills 1.83% Cu Over 28.8m Including 2.55% Cu Over 19.4m and 5.4% Cu over 2.25m*

**14 January 2019:** *Aguia Enters Final Phase of Três Estradas Environmental Permitting*

**18 December 2018:** *Aguia Closes Private Placement*

**29 November 2018:** *Aguia Evaluating Options to Unlock Value of Rio Grande Copper Assets*

**13 November 2018:** *Update on Big Ranch Drilling and Três Estradas Permitting*

**11 October 2018:** *3000 Metre Diamond Drilling Program Underway at Big Ranch Copper Prospect*

**12 September 2018:** *Big Ranch Copper Exploration and Três Estradas Update*

**21 March 2018:** *Bankable Feasibility Study of Três Estradas Confirms Robust Project Economics*

**27 February 2018:** *Aguia Identifies Zone of Copper Mineralisation within 9km Target Area in Rio Grande do Sul, Southern Brazil*

**16 January 2018:** *Auger Drilling At Mato Grande Carbonatite Returns Highly Encouraging Assay Results*

**20 September 2017:** *Três Estradas Phosphate Project's 2017 Mineral Resource Statement, Rio Grande do Sul, Brazil*

**11 October 2016:** *Aguia Achieves Key Project Development Milestone with Environmental Impact Assessment Submitted for Três Estradas*

**8 June 2016:** *Aguia Signs Option Agreement on Property Adjacent to Três Estradas and Secures New Carbonatite Occurrence*

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements listed above and, in the case of estimates of Mineral Resources or Ore Reserves that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The technical and scientific information in this presentation, including information that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves, is based on information compiled by Dr Fernando Tallarico, who is a member of the Association of Professional Geoscientists of Ontario. Dr Tallarico is a full-time employee of the company. Dr Tallarico has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Tallarico consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.






# THANK YOU

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# APPENDIX

# REGIONAL PHOSPHATE TARGETS

## Santa Clara - SCPT

- Option signed on 3,553 ha Santa Clara which includes 2km long geophysical anomaly with the same pattern as Três Estradas<sup>1</sup>
- 2 x US\$25,000 payments remain (Oct and Dec 2019)
- Exploration planned;
  - Ground geophysics
  - Auger drilling of soft material

## Terra Santa - TSPT

- Option signed on 4,500 ha Terra Santa located adjacent to Três Estradas, expanding footprint by 30%<sup>2</sup>

<sup>1</sup> See ASX release 8th June 2016

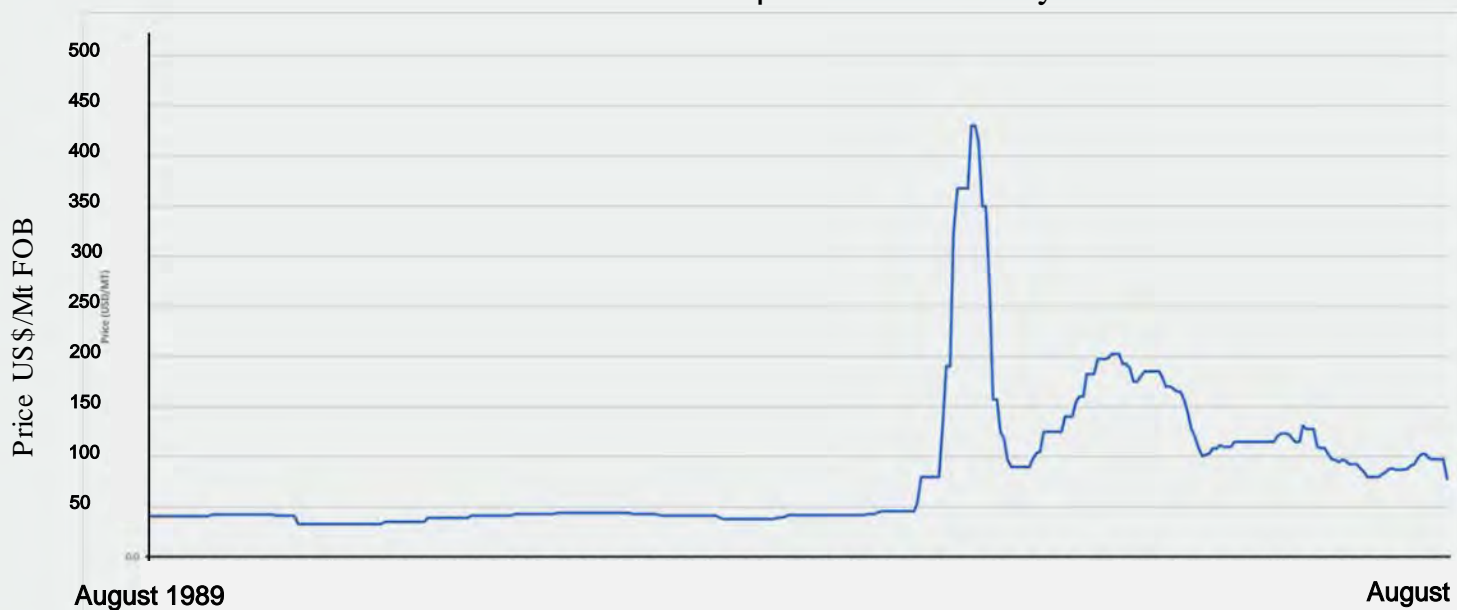
<sup>2</sup> See ASX release 9th December 2015

# INTERNATIONAL PHOSPHATE

Phosphate essential for plants / animals

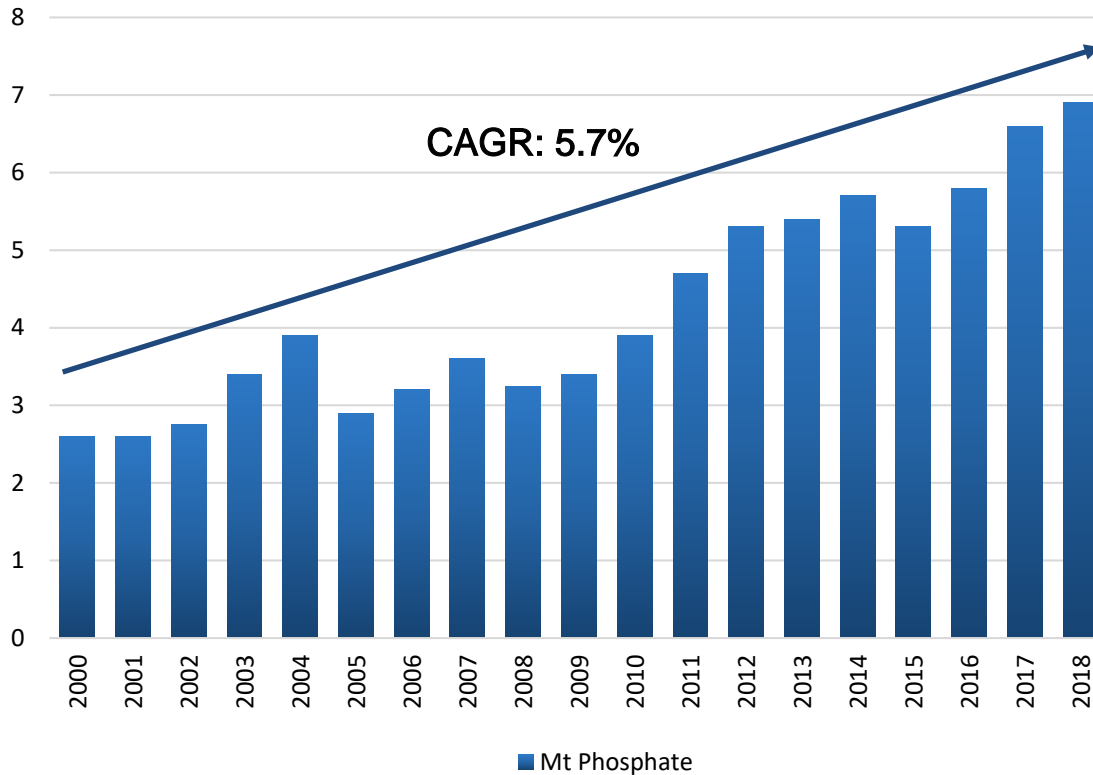
- Morocco (government via OCP) dominates with >70% global resources
  - Reference price US\$/tonne FOB Morocco
  - OCP grade ~ 26% P<sub>2</sub>O<sub>5</sub>
  - Contains negligible contaminants
- Most Phosphate is consumed after chemical processing into fertilizer (SSP – Single Super Phosphate)

Moroccan Phosphate Price – 30 year



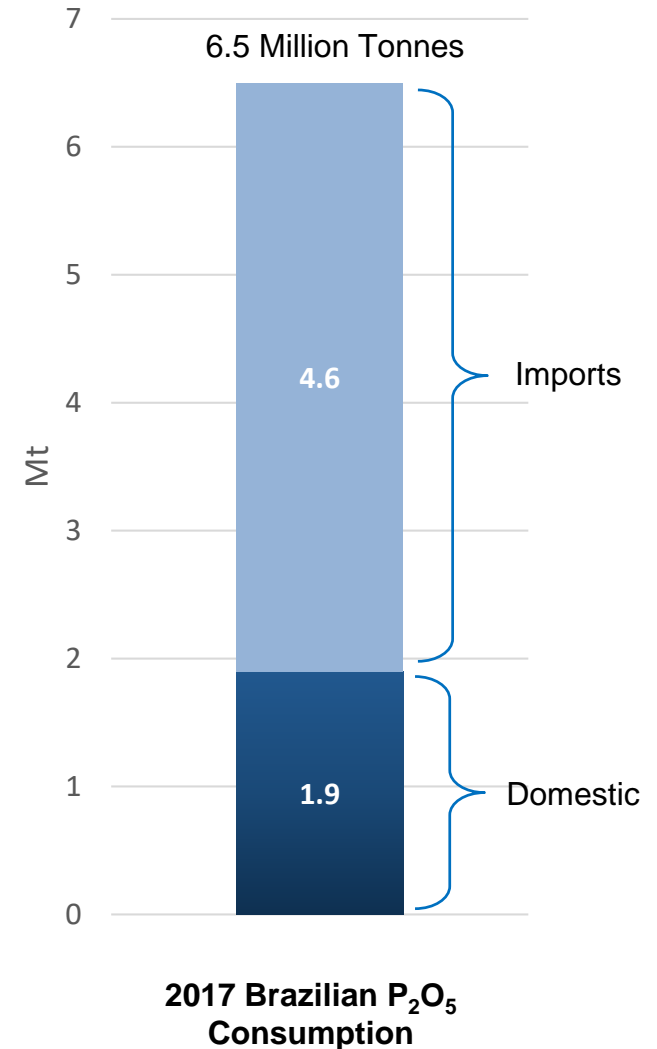
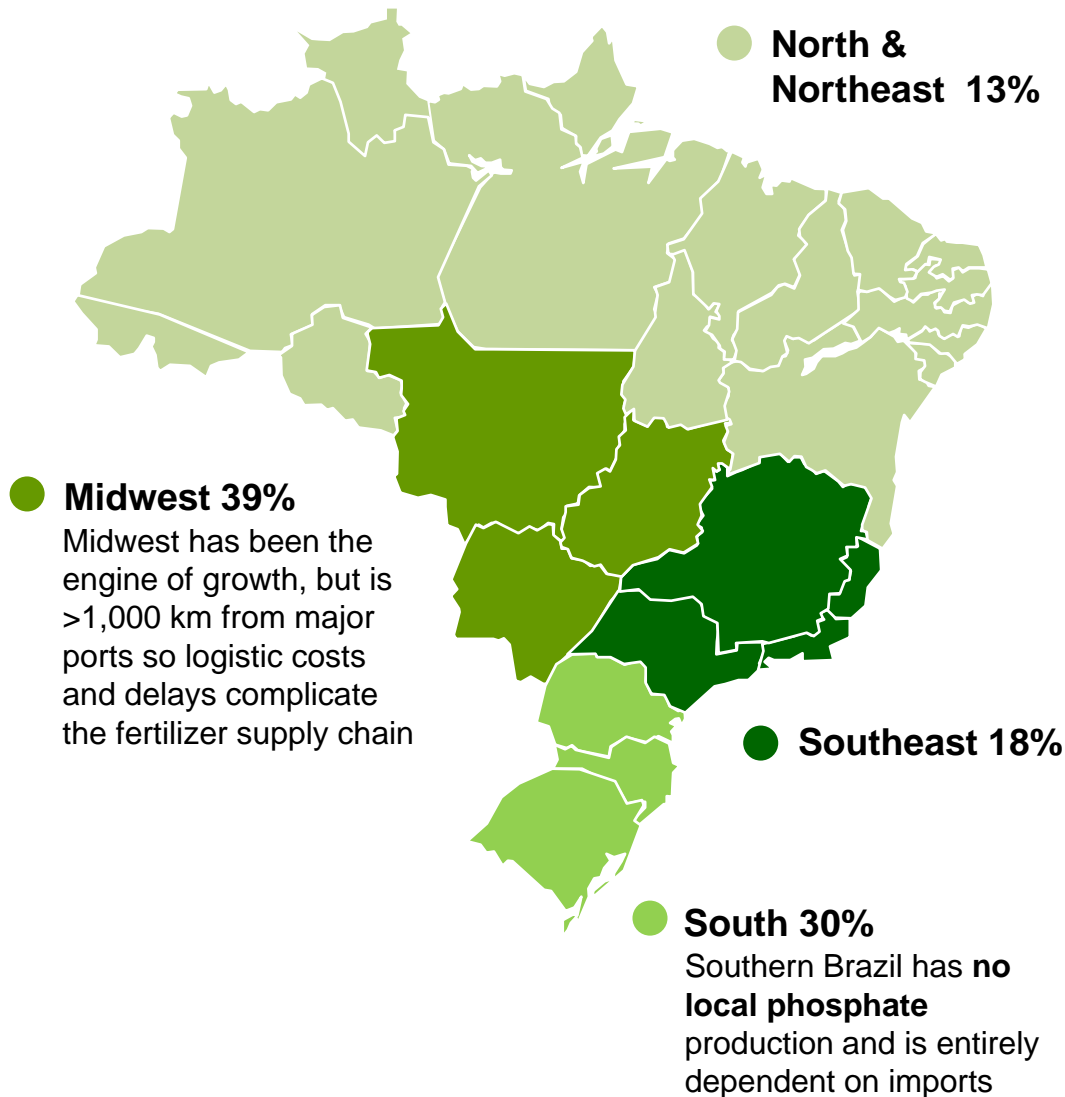
# BRAZIL OUTPACES GLOBAL DEMAND FOR PHOSPHATE

## Brazilian Phosphate Demand



- Demand > 2x since 2000
- Due to increased:
  - Harvested land area
  - Fertilizer application rates

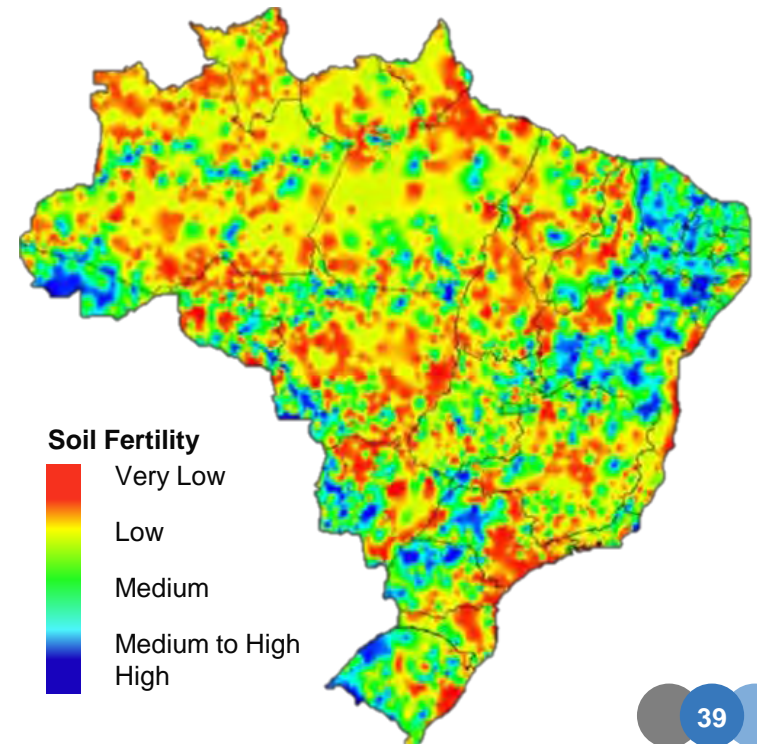
# BRAZIL PHOSPHATE DEMAND BY REGION



# BRAZILS' SOIL REQUIRES NUTRIENTS (SOYBEANS)

COUNTRY	AREA (Mil Ha)	PRODUCTION (MT)	NPK (MT)	NPK APPLICATION (Kg/Ha)	Yield (T/Ha)
<b>Brazil</b>	<b>35</b>	<b>120</b>	<b>5.60</b>	<b>160</b>	<b>3.40</b>
USA	36	120	2.11	60	3.33
Argentina	17	38	.27	14	2.32
China	7.9	14	.50	60	1.81
World	119	337	9.74	82	2.72
World ex-Brazil	84	217	4.14	49	2.58

Brazil is an agricultural powerhouse despite often low fertility soils due to science, modern farming methods and **extensive use of fertilizers**



# DOMESTIC PRODUCER COST ADVANTAGE

## Southern Brazil:

- 100% reliant on phosphate imports
- No mines planned other than AGR
- Currently 1.2 to 1.5 Mt of phosphate imports annually
- **Agua - sustained cost advantage due to shipping, demurrage, insurance and import duty costs**
- Agua's TEPP current projection of 300,000 tpa will displace phosphate imports in Rio Grande do Sul
- Timac and Yara are the major producers at Rio Grande port (4 hours away) with combined capacity of 1.1 Mt per annum of fertilizer
- Yara spending US\$275M at port to double capacity by 2020
- Established agricultural lime (**aglime**) market provides secondary revenue stream for 1 Mtpa calcite by-product

## Supplier of Phosphate Rock to Brazil





# COPPER SUPPLY DEFICIT LOOMS

## Copper Mine Production Peaks in 2019

