

# BRAZILIAN PHOSPHATE FERTILISER MARKET TREND

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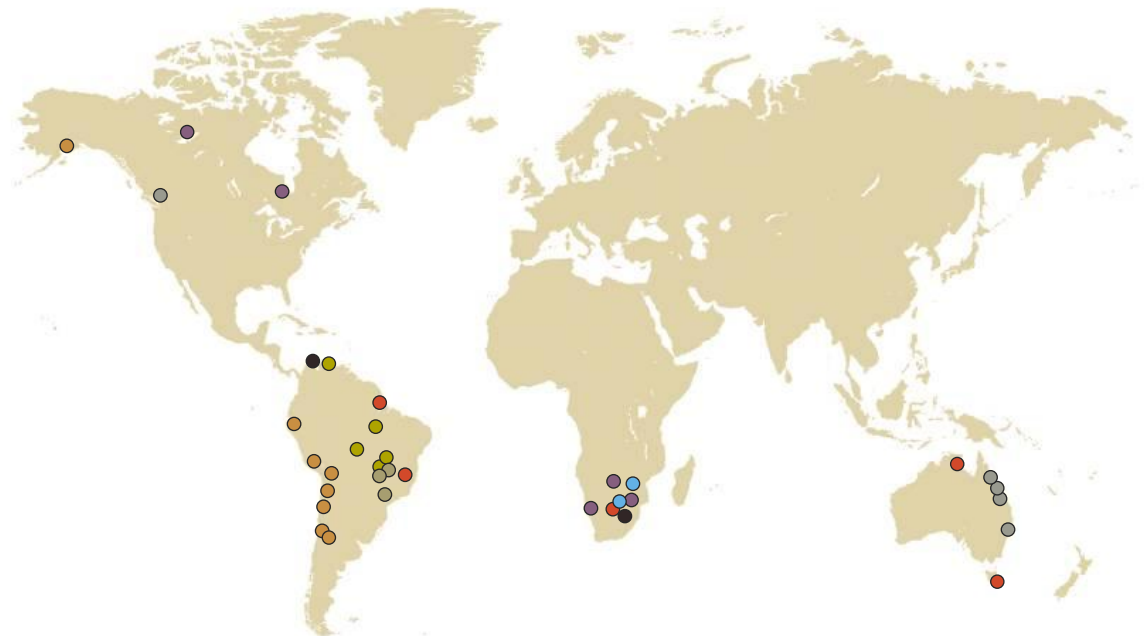
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# OUR AMBITION IS TO BE THE LEADING GLOBAL MINING COMPANY, BECOMING THE INVESTMENT, PARTNER AND EMPLOYER OF CHOICE



**ANGLO AMERICAN:  
CRESCENDO E  
AJUDANDO O  
BRASIL A CRESCER.**

## Anglo American Portfolio



- Other Mining and Industrial
- Nickel
- Metallurgical Coal
- Iron Ore and Manganese
- Platinum
- Thermal Coal
- Diamonds
- Copper

### Copebras is now Anglo American's Phosphates business

- We are now officially Anglo American and we continue committed to strengthen our relationship so that we can grow together, always having safe work and respect for the environment as fundamental values for our development

Brazilian Phosphate Fertiliser Demand – Strong and Positive Fundamentals

Brazilian Phosphate Fertiliser Supply – Focusing on Reducing Imports

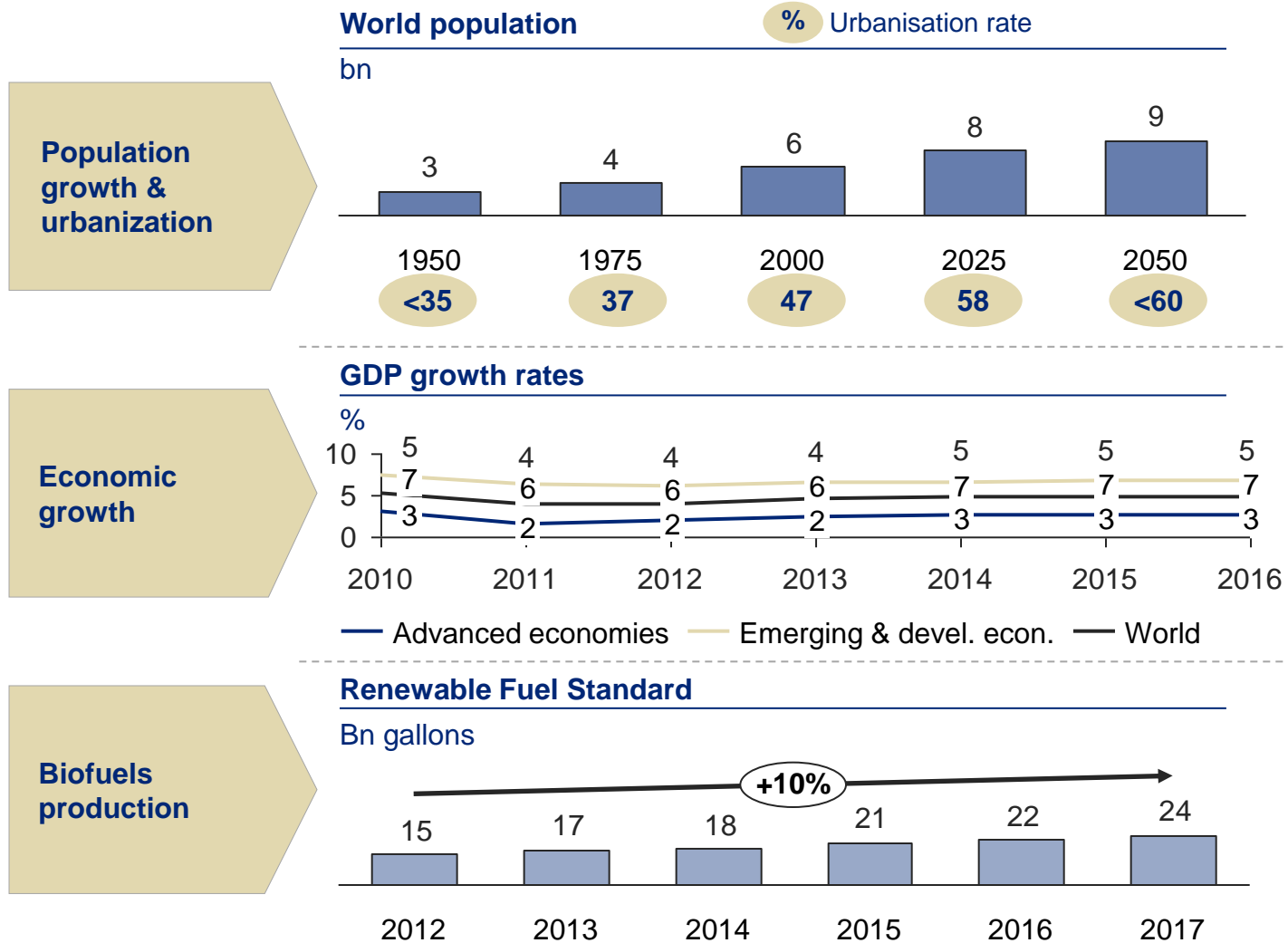
Challenges to Deliver the Projects

Brazilian Market Trends

Anglo American Phosphates

Conclusions

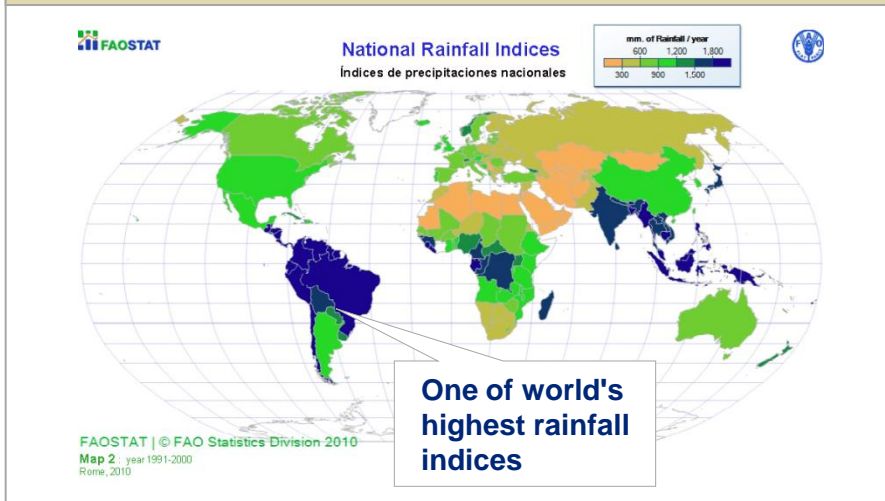
# KEY MARKET DRIVERS FOR FOOD DEMAND AND BIOFUELS INDICATE A SHARP EXPANSION OF GLOBAL NEEDS



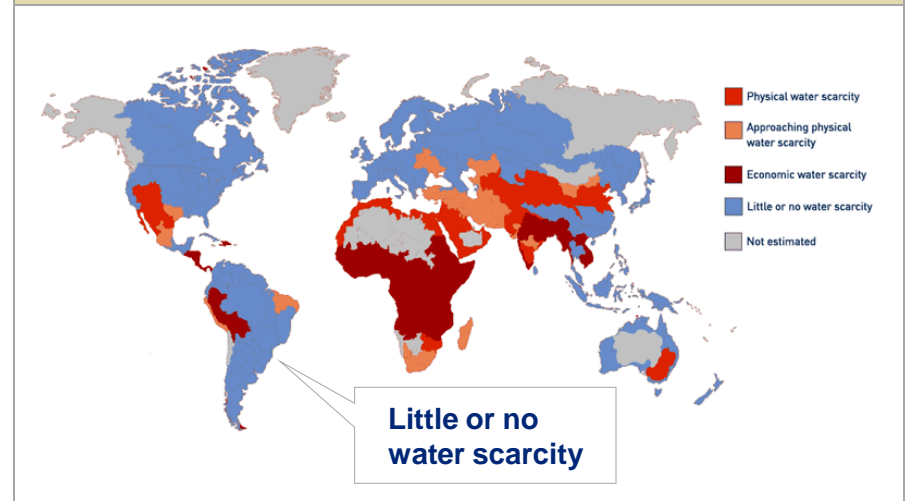
SOURCE: MB Agro; FAO STAT ; IMF World Economic Outlook Sept 2011; AA Phosphates analysis

# UNDER THIS CONTEXT, BRAZIL IS SEEN AS A POWERHOUSE AND A KEY STRATEGIC PARTNER...

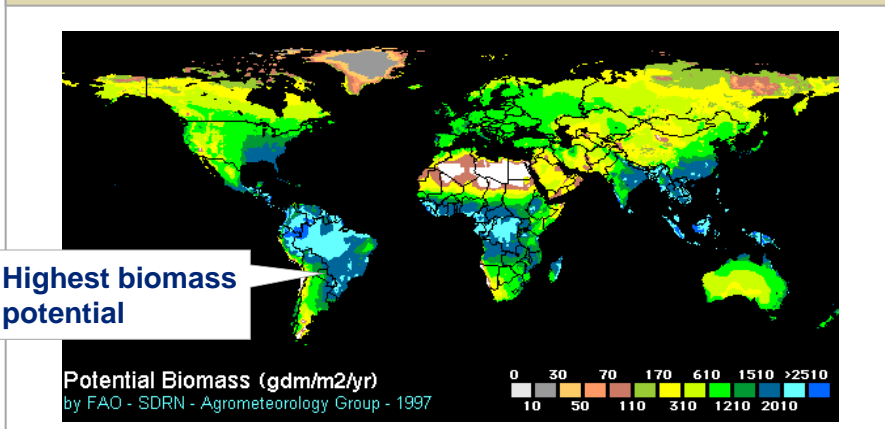
## Brazil enjoys high national rainfall rates...



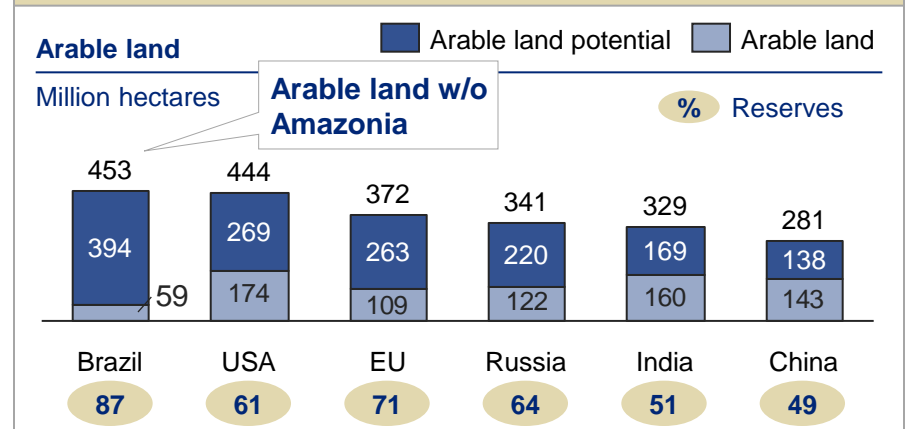
## ... and extensive water resources



## Brazil has strong biomass production potential...



## ... with one of the highest arable land potential

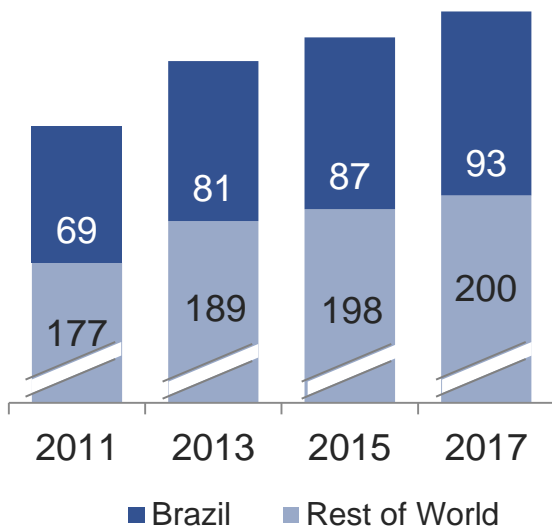


# ...WITH MAJOR CROPS IN BRAZIL GROWING CLEARLY FASTER THAN WORLD PRODUCTION

Soy production in Brazil expected to grow almost **twice as fast** as in the world (5% vs 3% p.a.)

Soy (grain) production forecast (Mt)

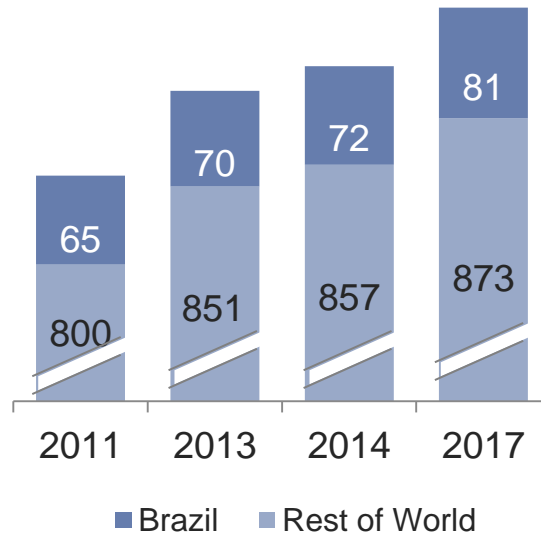
CAGR (2011-17) **5%** **3%**



Corn production in Brazil expected to grow **twice as fast** as in the world (4% vs 2% p.a.)

Corn production forecast (Mt)

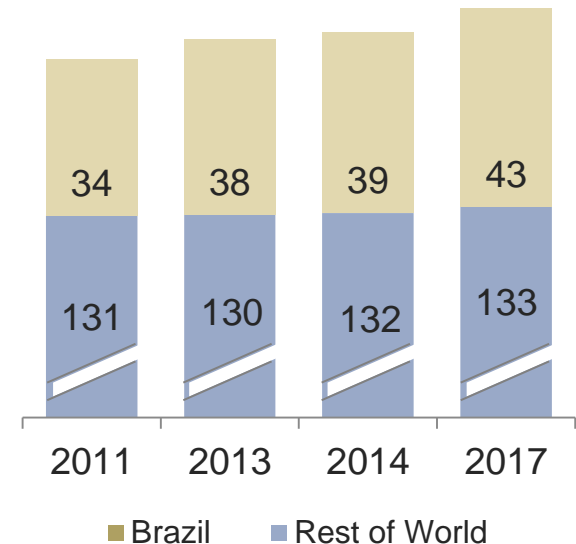
CAGR (2011-17) **4%** **2%**



Sugar production in Brazil expected to grow **four times faster** than world (4% vs 1% p.a.)

Sugar cane production forecast (Mt)

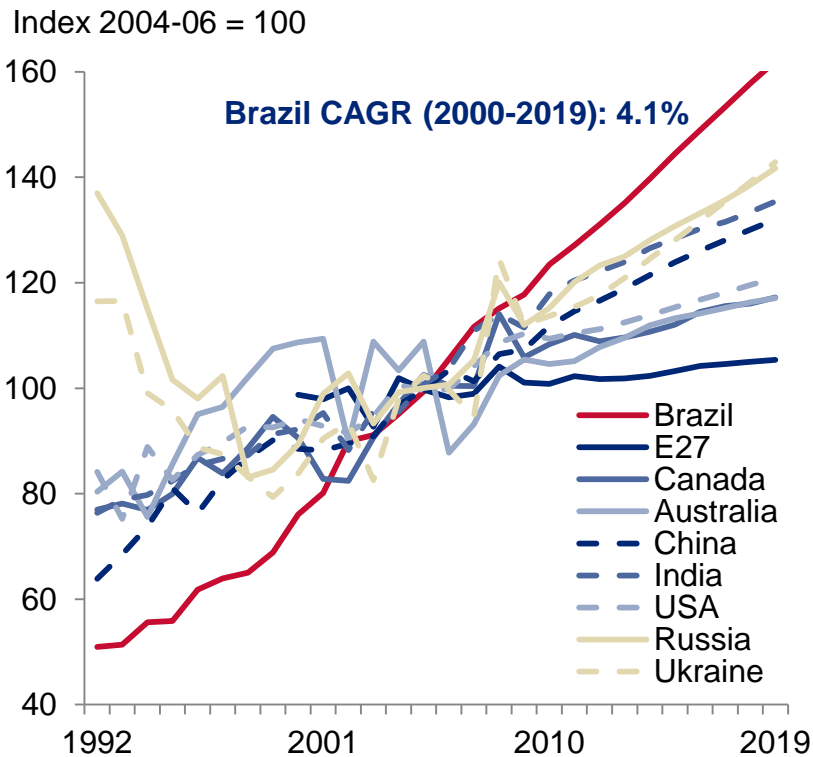
CAGR (2011-17) **4%** **1%**



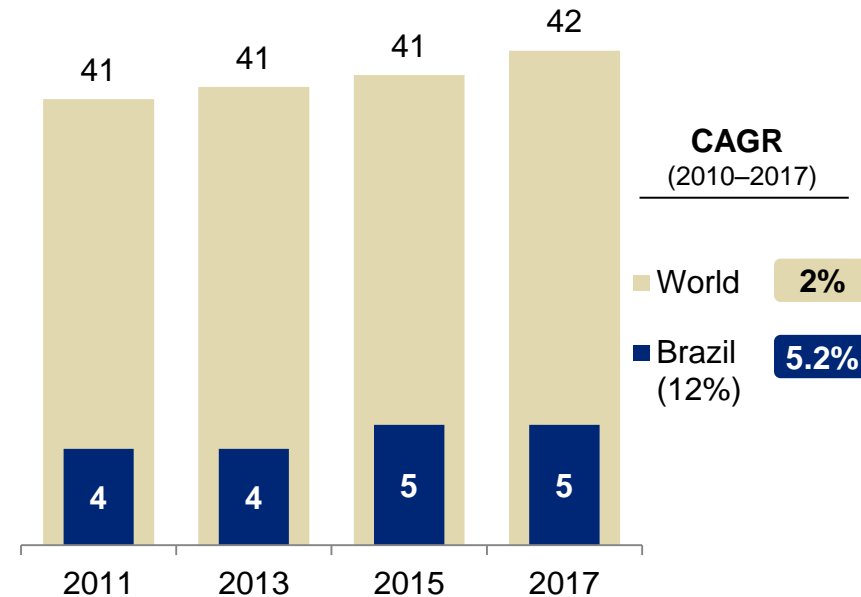
# ... AND SHOULD DRIVE FERTILISER DEMAND UP

**Brazilian agricultural sector by far fastest growing in the world and ...**

**...and expected to increase to 5% p.a. from 2011 to 2017, accounting for 12% of global demand**



Global and Brazilian fertiliser demand (2010 -2017)  
Mt P<sub>2</sub>O<sub>5</sub>



Brazilian Phosphate Fertiliser Demand – Strong and Positive Fundamentals

Brazilian Phosphate Fertiliser Supply – Focusing on Reducing Imports

Challenges to Deliver the Projects

Brazilian Market Trends

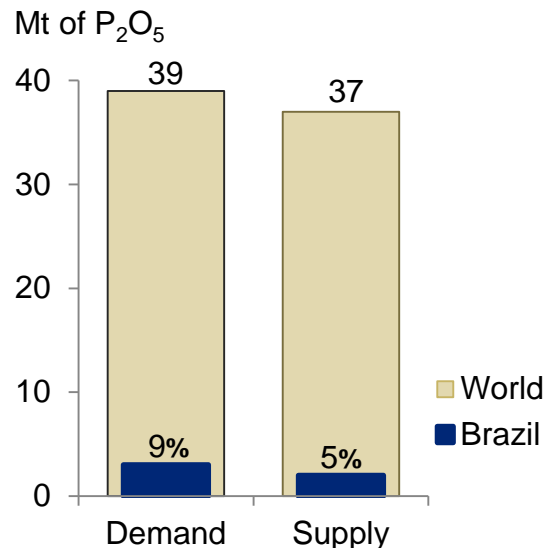
Anglo American Phosphates

Conclusions

# THE POSITIVE SCENARIO IS FOSTERING NEW PHOSPHATES PROJECTS AIMING TO REDUCE THE CURRENT NATIONAL GAP WITH IMPORTS

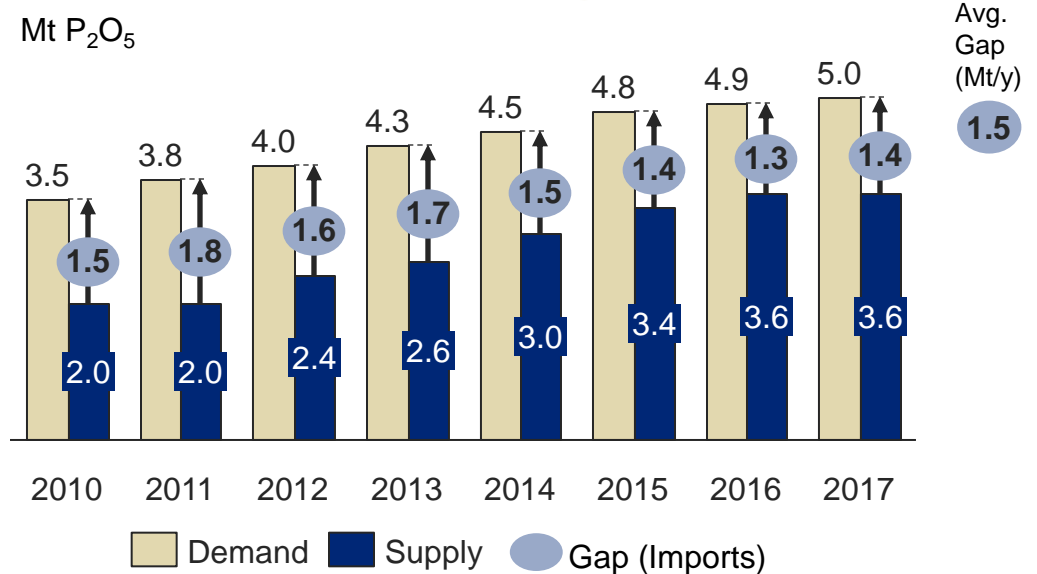
**Brazil represents 9% of world's demand, but only 5% of supply...**

Brazilian's share of global phosphate demand/supply (2009)



**...and will due to national undersupply remain a fertiliser importer**

Brazilian demand/supply balance  
**CAGR (2010-17): 5,2% 8,8%**



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# HOWEVER, THE CHALLENGES FOR EXPANSION PROJECTS ARE INCREASING AND GETTING MORE COMPLEX ON OUR CURRENT ENVIRONMENT

## Capital Restrictions

- Strategic divestments and reallocation of capital
- Largest mining companies announcing cuts on budget for capital expenditures in 2013
- Use of resources from BNDES from mining sector decreases 45% in 2012 (from Jan to Aug)

## EPCM – Eng., Procurement and Construction Management

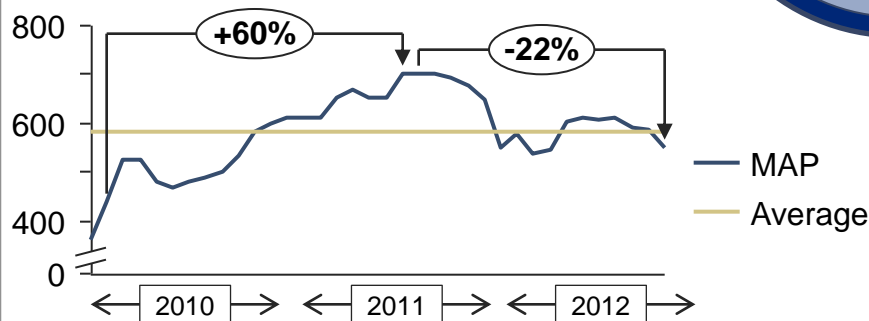
- Cost Inflation - averaging roughly 5–7% in the last 10 years
- Workforce shortage - Identifying, attracting and retaining critical operational and construction skills remains a top priority for the mining and metal sector

Projects to be delivered:

- On Safety
- On Time
- On Budget

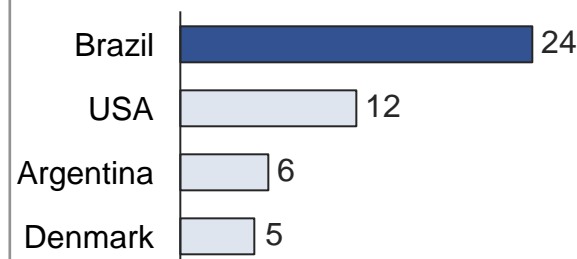
## Price Volatility

MAP prices - USD / t



## Licensing (Environment)

Average months to obtain an environmental permit:



<sup>1</sup> Federal Government Broadcast Alerts, 3 October; Canadian Mining Industry Employment and Hiring Forecasts, 2011

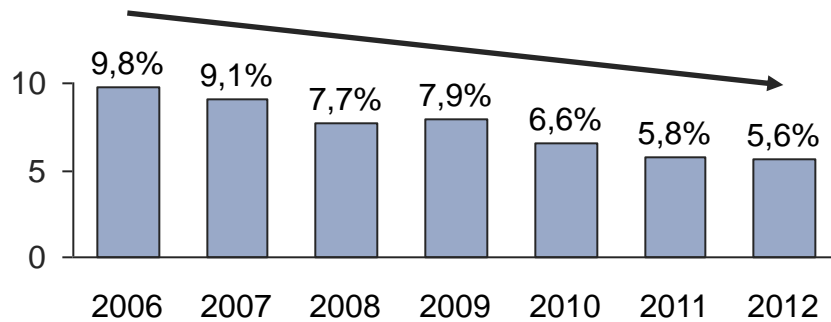
<sup>2</sup> Deutsche Bank, Commodity Online, 16 April 2012

SOURCE: BNDES release 2012; AA Phosphates historic prices; Exame Edição 1031

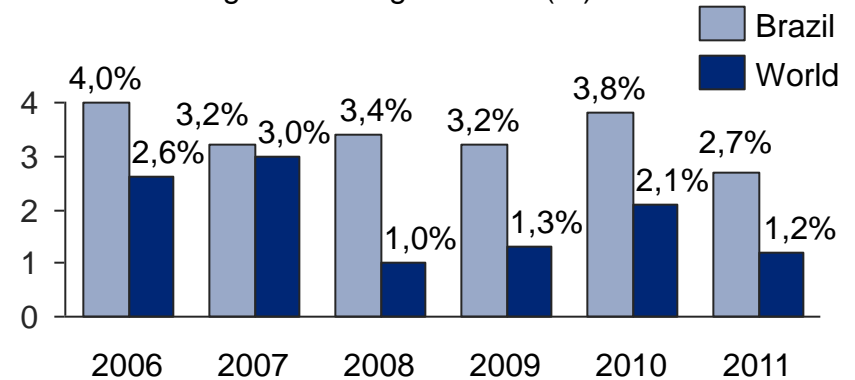
# THERE IS AN UPWARD TREND COST IMPACTED BY UNCONTROLLABLE MACROINDICATORS...

.. the unemployment rate declining and the average wage rising sustain the upward trend on workforce cost...

Brazilian Unemployment Rate (%)

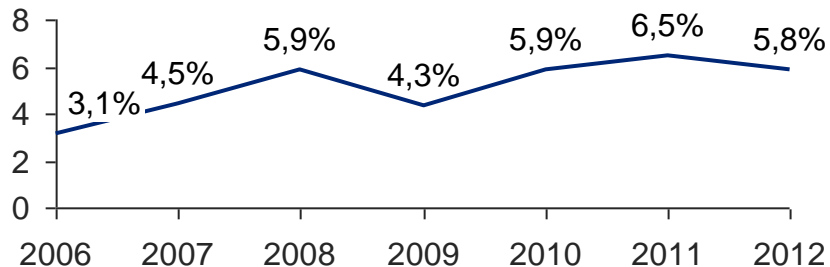


Annual Average Real Wage Growth (%)



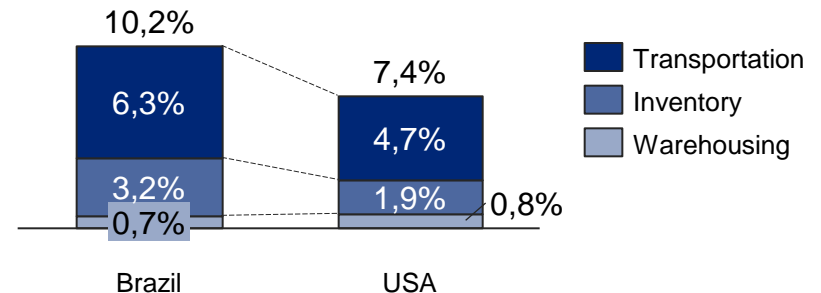
... inflation has been directly impacted by the lowest interest rates that Brazil already practiced ...

Inflation (%)



.. and logistics costs are largely representative

Logistics Costs Related to GDP (%)



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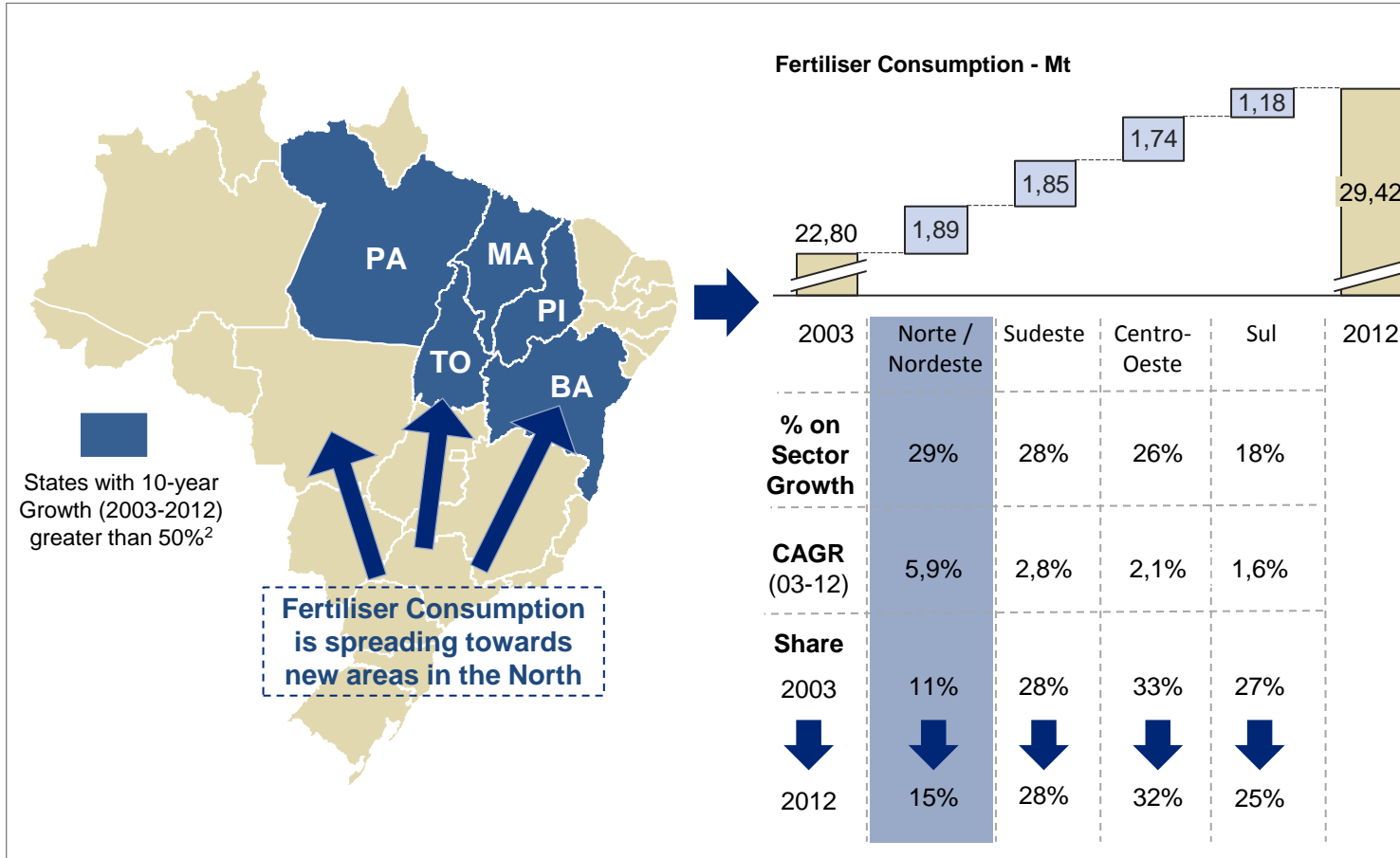
**Brazilian Market Trends**

Anglo American Phosphates

Conclusions

# BRAZIL FERTILISER CONSUMPTION IS GROWING FASTER IN THE NORTH AND A NEW AGRICULTURAL FRONTIER IS COMING OUT

Domestic Fertiliser Consumption (last 10 years)<sup>1</sup>



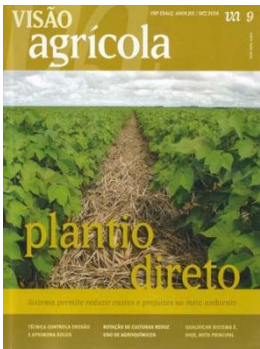
- North Region presents the highest growth
- Its participation on fertiliser demand have been raising due to:
  - Land and water availability
  - Good weather conditions
- The challenge is the infrastructure to leak grain production (ports, roads, rails, etc)
- Centre West is the biggest region in terms of fertiliser consumption

<sup>1</sup> ANDA – Associação Nacional para Difusão de Adubos

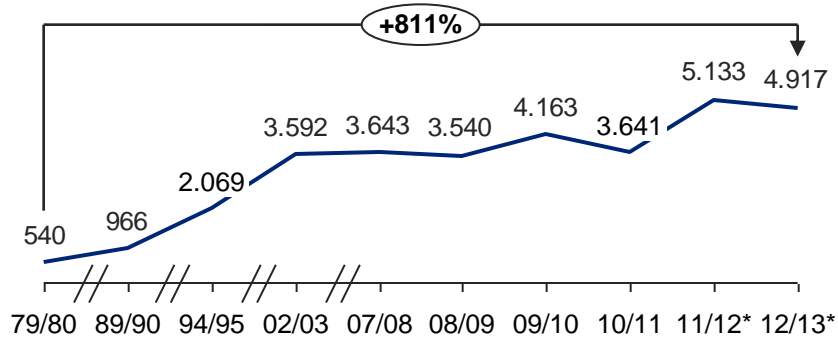
<sup>2</sup> Representing a share of at least 1% of the national market

# TECHNOLOGIES DEVELOPMENT HAS ENABLED BRAZIL TO HAVE 2 CROPS/YEAR

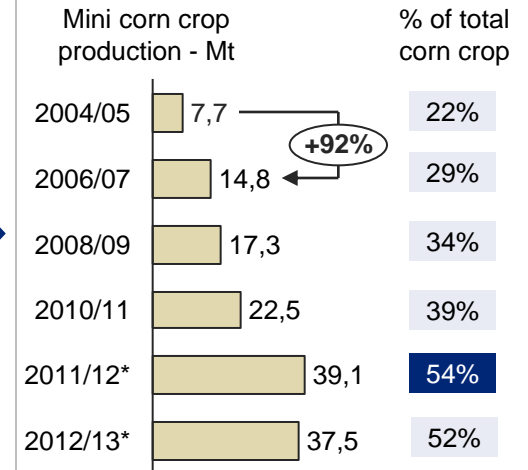
New technologies and better expertise have been raising the productivity of the mini crops with the “plantio direto” system



Productivity mini corn crops – kg/ha



Changing Brazilian scenario, therefore fertiliser dynamics



For the first time mini corn crop surpassed normal crop in terms of volume produced



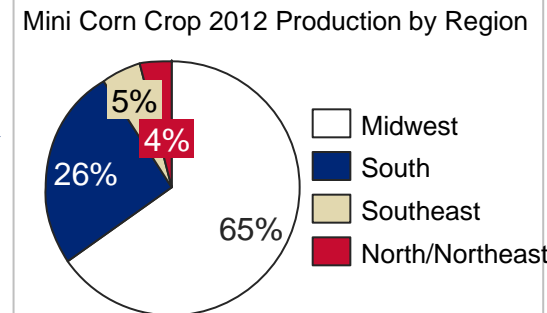
"A safrinha do milho se tornou safrão. Foi surpreendente e sem dúvida contribuiu de forma decisiva para que tivéssemos a maior safra de grãos da história do país em 2011/2012"

*"The mini corn crop has become a huge crop one. It's surprising, we have no doubts that it contributed for the largest grain harvest of our history in 2011/2012"*

Mendes Ribeiro (Agriculture Minister)

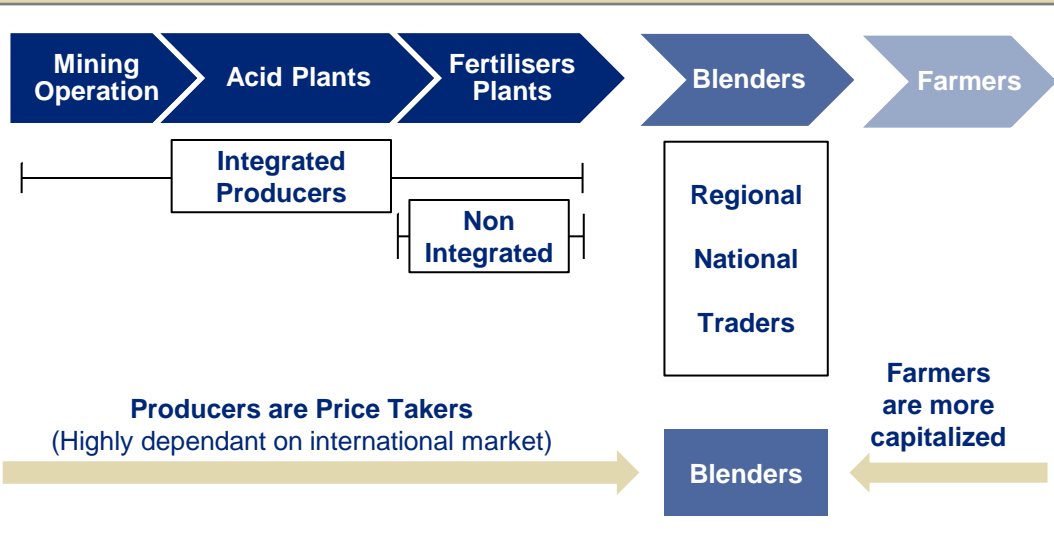


Mini corn crop concentrated in Midwest



# NPK DISTRIBUTOR SECTOR IS ALSO FACING IMPORTANT CHANGES

## Phosphate Industry Chain



- Roles on Phosphate Chain are **clearer** on the past few years
- Blenders performing a **crucial role for fertiliser distribution**
- Producers are **not interested** to go downstream
- Blenders being pressured since **farmers are more capitalized and have more bargaining power**

## Blenders Sector Trend

- Market share of regional blenders falling year by year
- Decrease number of blenders: 100 today against more than 300 in the beginning of twenties
- Increasing number of acquisitions and new entrants
- Producers not going downstream

- Blenders continue to be **important** and **strategic** for the Brazilian fertiliser industry
- Blenders **market concentration** might increase in the coming years

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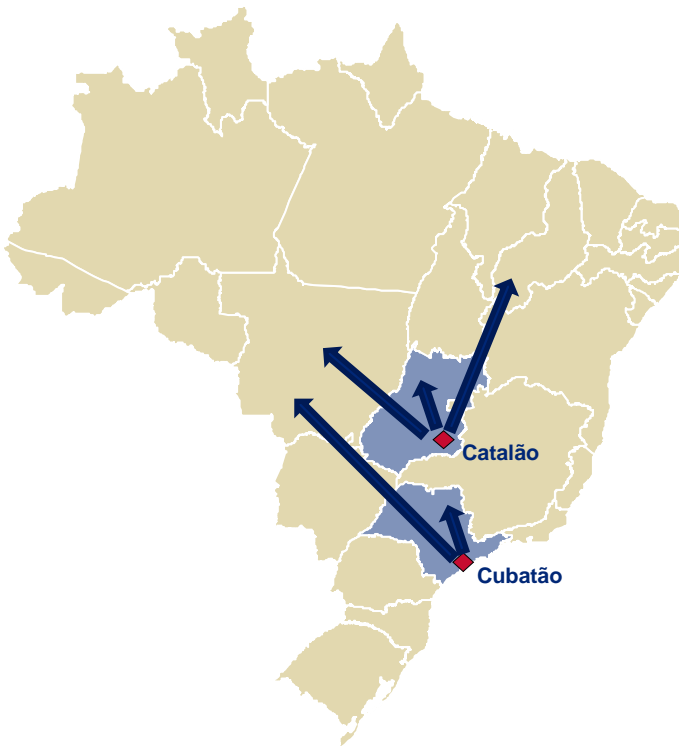
**Anglo American Phosphates**

Conclusions

# ANGLO AMERICAN PHOSPHATES IS INVESTING TO MEET FERTILISER DEMAND GROWTH IN BRAZIL

Anglo American Phosphate is very well located to meet Brazilian Fertiliser demand at a competitive cost...

..and Anglo has also a relevant project to duplicate the phosphate rock capacity at Catalão site



## Ouvidor – GO

- Mine – 1,3 Mt
- @P<sub>2</sub>O<sub>5</sub> – 12% in mine
- @P<sub>2</sub>O<sub>5</sub> – 36% after beneficiation

## Catalão Site

- 7 km from the mine
- Current Capacity:
  - SSP – 600 kt
  - MAP/GTSP – 200 kt
  - DCP – 100 kt

## Cubatão Site

- Favourable logistic for being close to Santos Port and to meet SP and MT market
- Current Capacity (final product):
  - SSP – 400 kt
  - Phosp Acid – 150 kt
  - DCP – 60 kt

## Main characteristics:

- Additional capacities:
  - Phosphate Rock – 1,4 Mt
  - Phosphoric Acid – 0,5 Mt
  - Sulphuric Acid – 1,1Mt
  - Fertiliser – 0,7 Mt
- Stage: FEL 2

- Brownfield Project with low Capex / additional capacity
- In-house knowledge
- Long Life of Mine (more than 40 years)
- Highest P<sub>2</sub>O<sub>5</sub> content in Brazil

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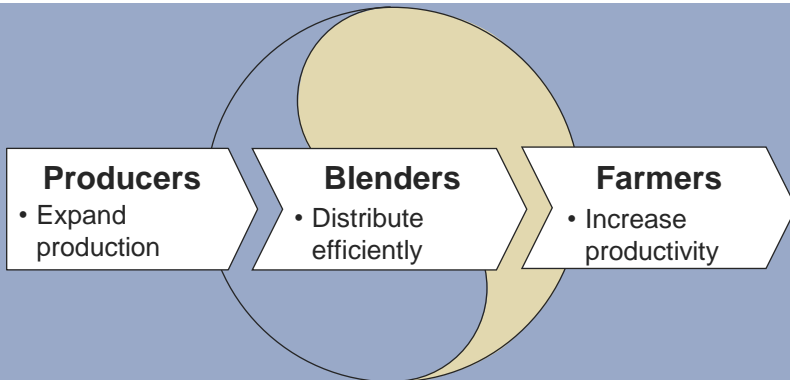
# CONCLUSIONS

Agriculture  
**positive**  
environment

Brazil plays a  
**crucial** market  
role

There are still  
**challenges** on  
expanding

## Interdependent Fertilizer Value chain



- Value chain integrants need to work together to:
  - Overcome the Brazilian challenges
  - Support the country to achieve its targets
- Anglo American Phosphates is committed to efficiency and growth, contributing to the market expansion



Safety



Care and respect



Integrity



Accountability



Collaboration



Innovation

**THANK YOU**