



Maxim Volkov CEO Citi 4th Annual Basic Materials Symposium 30 November 2011



# PHOSAGRO

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### PhosAgro at a glance

World class integrated phosphate producer

- #1 global producer of high-grade phosphate rock (P<sub>2</sub>O<sub>5</sub>>35.7%) with 8.1 mln t capacity
- #2 global DAP/MAP producer<sup>(1)</sup> with 3.5 mln t capacity
- Leading European producer of MCP feed phosphate and the only one in Russia

Control of large high quality apatite-nepheline resources

-----

- 2.1 bln t of apatite-nepheline ore resources<sup>(2)</sup> (over 75 years of production)
- Al<sub>2</sub>O<sub>3</sub> resource of 283 mln t
- Substantial resources of gallium oxide, TiO<sub>2</sub> and rare earth oxides (41% of Russian resources and 96% of the currently developed<sup>(3)</sup>)

Self-sufficiency in key feedstocks provides for low costs

- First quartile cash cost of production globally
- 100% self-sufficient in phosphate rock and 94% in ammonia
- Local low-cost supplies of sulphur and potash

Strong position in prime agricultural markets

- Established presence through traders in India, Brazil and Europe
- Top-3 exporter of DAP/MAP globally
- Leader in the fast-growing Russian market

Strong financial performance

- EBITDA of \$674 mn and \$620 mn in 2010 and H1 2011, respectively
- Net debt/EBITDA: < 1.0x</li>

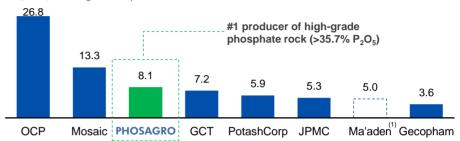
Note: (1) Excluding Chinese producers

(2) IMC mineral expert's report (JORC)

(3) Russian Academy of Science Source: FERTECON, IMC, PhosAgro

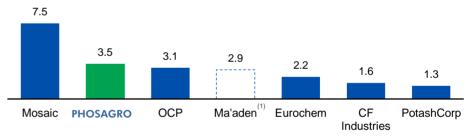
#### Leading global phosphate rock producers

2010, mln t, excluding Chinese producers

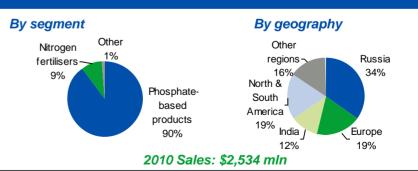


#### Leading global DAP/MAP producers (by capacity)

2010, mln t, excluding Chinese producers



#### 2010 Sales Breakdown



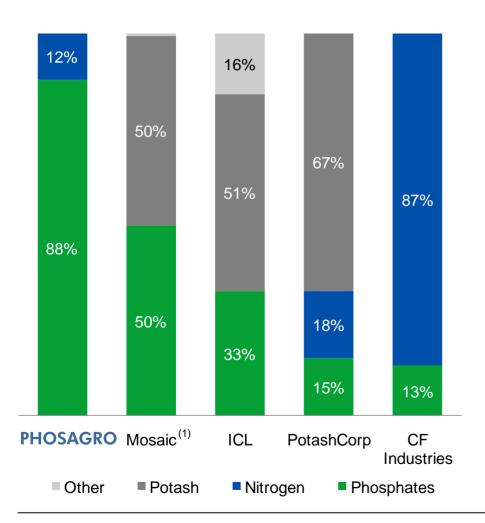
Note: (1) Ma'aden first stage at full capacity Source: FERTECON, companies' data



## The only pure play phosphates producer and best-in-class profitability

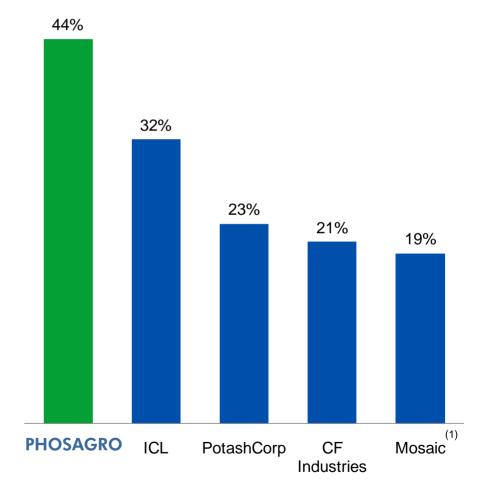
#### **Gross profit breakdown by segment**

Average gross profit breakdown by segment for 2008-2010



#### Phosphate segment gross profit margin

Average gross profit margin of phosphate segment for 2008-2010



Source: Company reports Note: (1) Calendarised Source: Company reports Note: (1) Calendarised





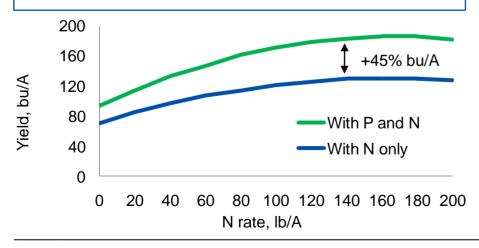
## Phosphorus is essential for life

#### Fertilisers - 85%<sup>(1)</sup>



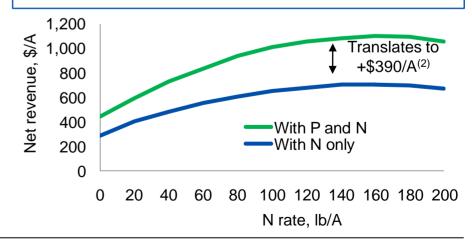
Without phosphate fertilisers

Effect of phosphate and nitrogen fertilisers on corn yield



With phosphate fertilisers

## Effect of phosphate and nitrogen fertilisers on net farmer revenue





## Phosphorus is essential for life

#### **Technical Phosphates – 9%<sup>(1)</sup>**



• Synthetic detergents



Metal treatment



Water treatment



 Lithium phosphate for hybrid and electric vehicle batteries



• Personal care products

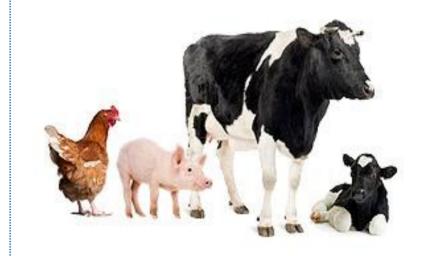


- Cheese
- Processed meat



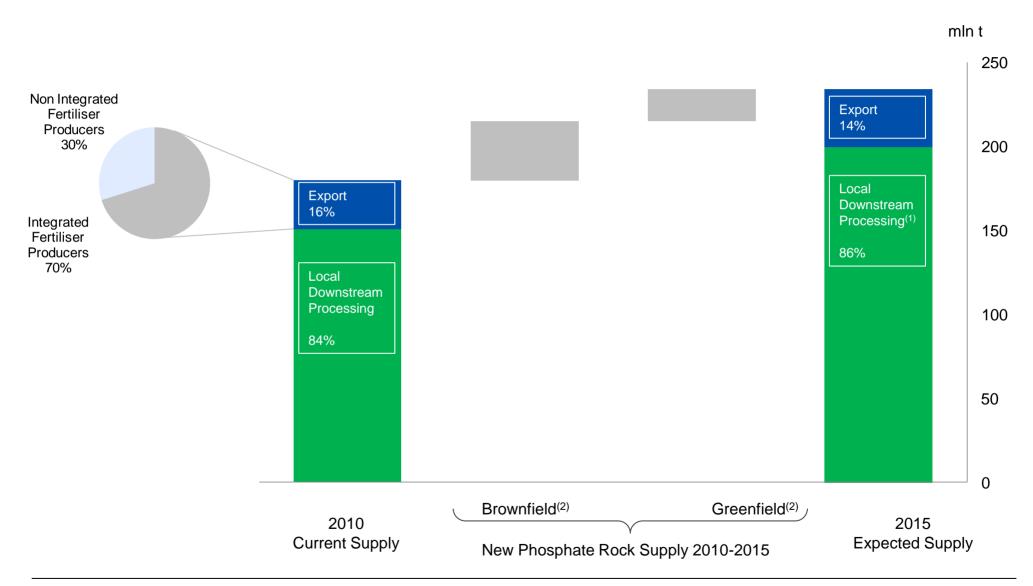
· Soft drinks

#### Animal Feed – 6%<sup>(1)</sup>





## Potential Phosphate Rock Supply in 2010-2015



Source: IFA, Fertecon, PhosAgro

Note: (1) Estimate

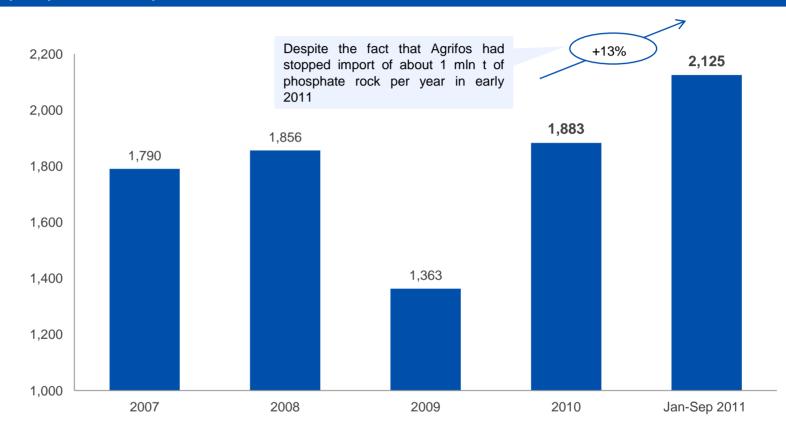
<sup>(2)</sup> Assuming that declared projects will commission without delays and will operate at full capacities



## Growth in US Phosphate Rock Imports

#### **US phosphate rock imports**

kt



#### **Import drivers**

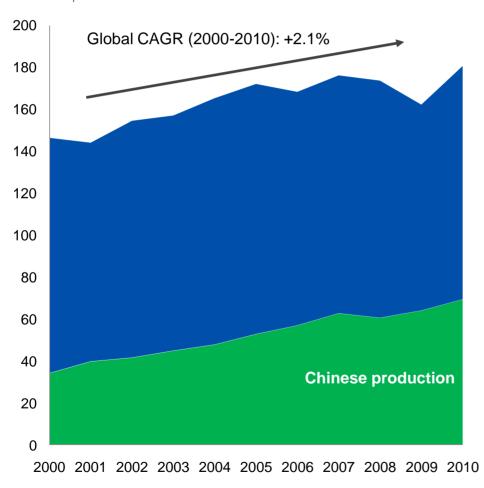
- Mosaic has increased phosphate rock imports as result of the decrease of its own mining at South Fort Meade
- Agrium has entered into contract with OCP to purchase phosphate rock as their own economic rock reserves are depleted



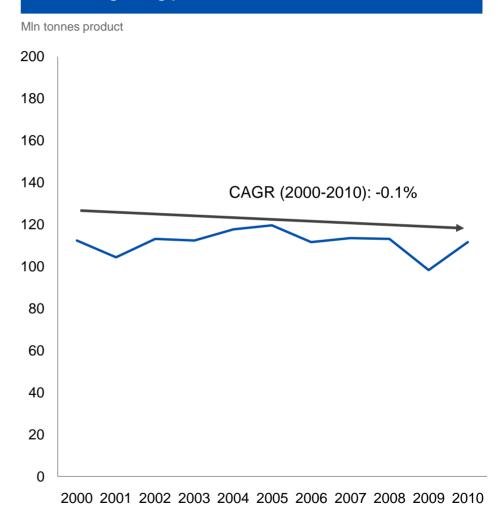
## Stagnating production of phosphates

## Global phosphate rock production is mainly driven by China ...

MIn tonnes product



#### ... with stagnating production in the rest of the world

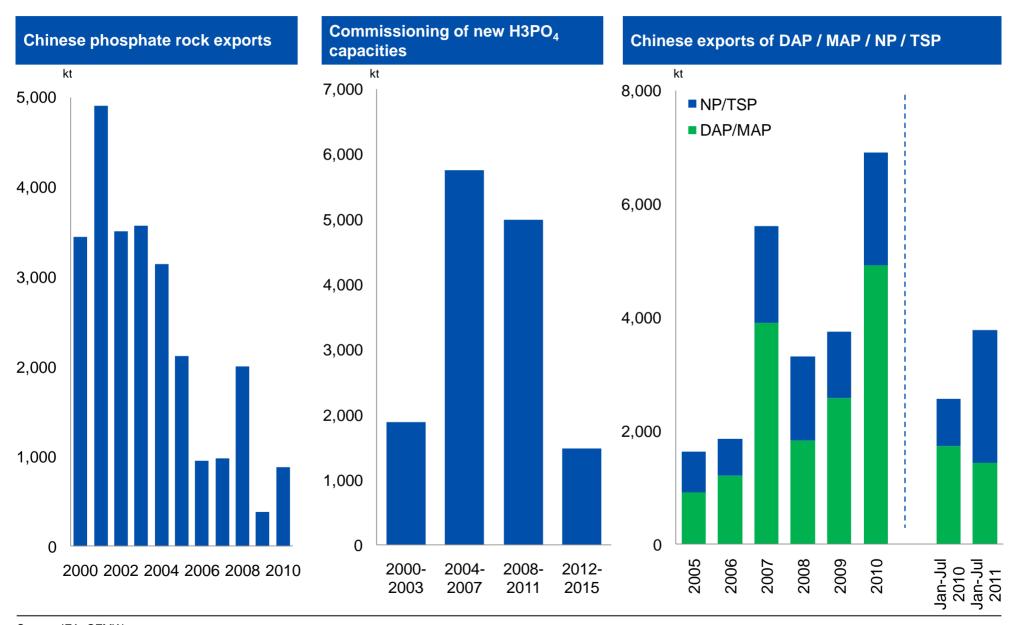


Source: IFA, Fertecon

Source: IFA, Fertecon



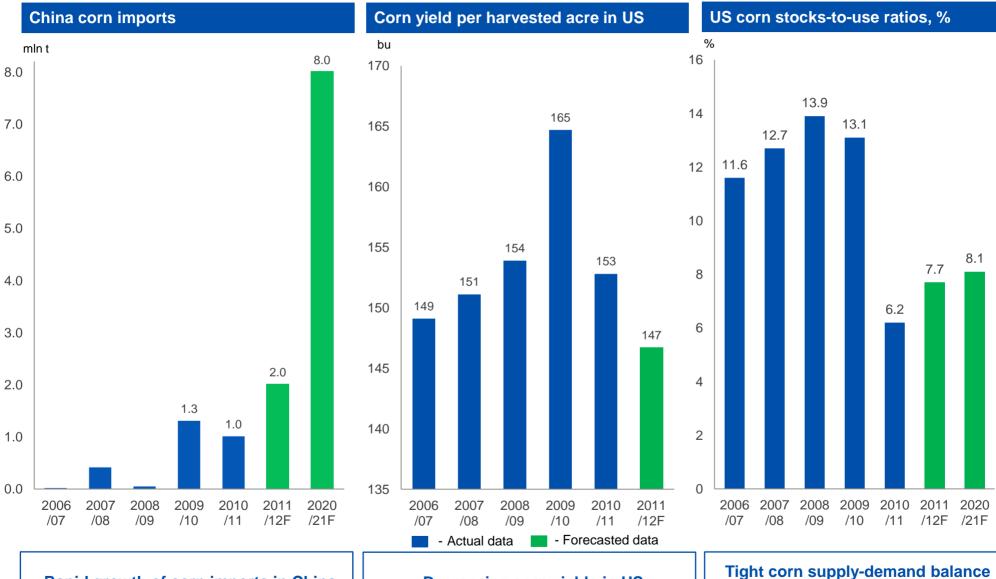
## Development of Chinese phosphate exports





## Tight corn supply-demand balance

due to low stock-to-use ratio



**Decreasing corn yields in US** 

Source: USDA 11

Rapid growth of corn imports in China



## Ma'aden is already priced-in by the markets

## New large capacity additions and change in DAP price in 1998-2000

#### 220 210 200 Oswal (India) 190 1,740 kt DAP per year 180 WMC (Australia) 170 1,000 kt DAP per year 160 150 140 130 Apr-99 Jan-98 Jun-98 Nov-98 Sep-99 Feb-00

#### Commencement of production at new DAP capacities

Source: Fertecon, Bloomberg

#### Expected Ma'aden start and DAP price changes in 2009-2011



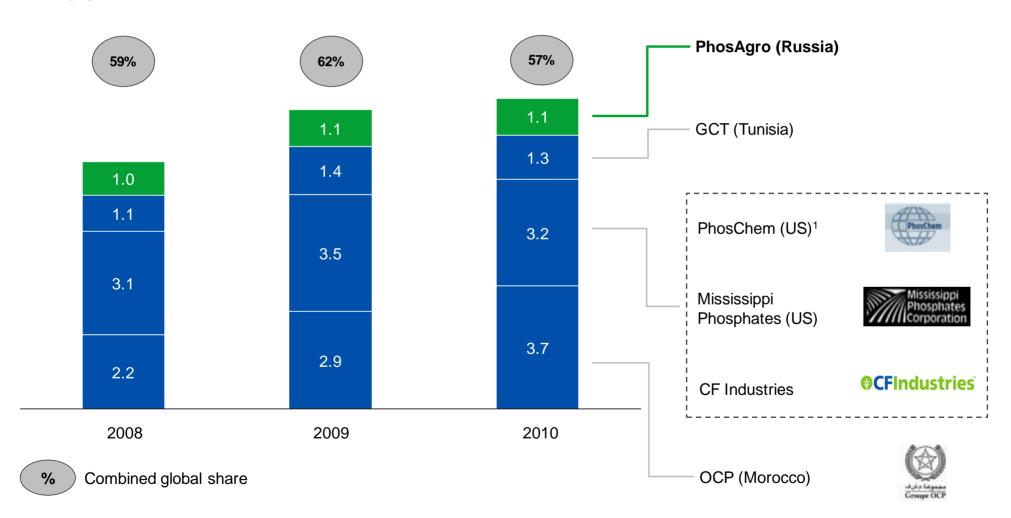
Source: Fertecon, Bloomberg



## Phosphate is a consolidated industry

#### Global export volumes of MAP / DAP / TSP / Phosphoric acid

mIn t P<sub>2</sub>O<sub>5</sub>



Source: Fertecon, IFA , Bloomberg, companies reports

Note: (1) PhosChem – Phosphate Chemical Export Association Inc. (Members: Mosaic, PCS)



## Need for a combination of feedstocks and complexity of production process act as barriers to entry

#### Overview of integrated phosphate-based production model based on PhosAgro's consumption ratios



15.2 mln t (12.9% P2O5)



4.4 mln t (39.0% P2O5)



1.3 mln t



4.0 mln t



1.7 mln t



733 mln m<sup>3</sup>



0.7 mln t



**Outbound Logistics** 



0.4 mln t



## Greenfield plant – costs case-study

Production facilities  Capacity – mln t / year	Ma'aden	PHOSAGRO
Phosphate rock mine	12.0	27.2
Beneficiation plant	5.0	8.1
Sulphuric Acid Plant	4.7	4.1
Phosphoric Acid Plant	1.5	1.8
Ammonia Plant	1.1	1.1
DAP Plant	2.9	3.7
Key products	DAP	MAP, DAP, NPK, NPS

Ma'aden – total est. CAPEX<sup>(1)</sup>: US\$ 5.6bIn

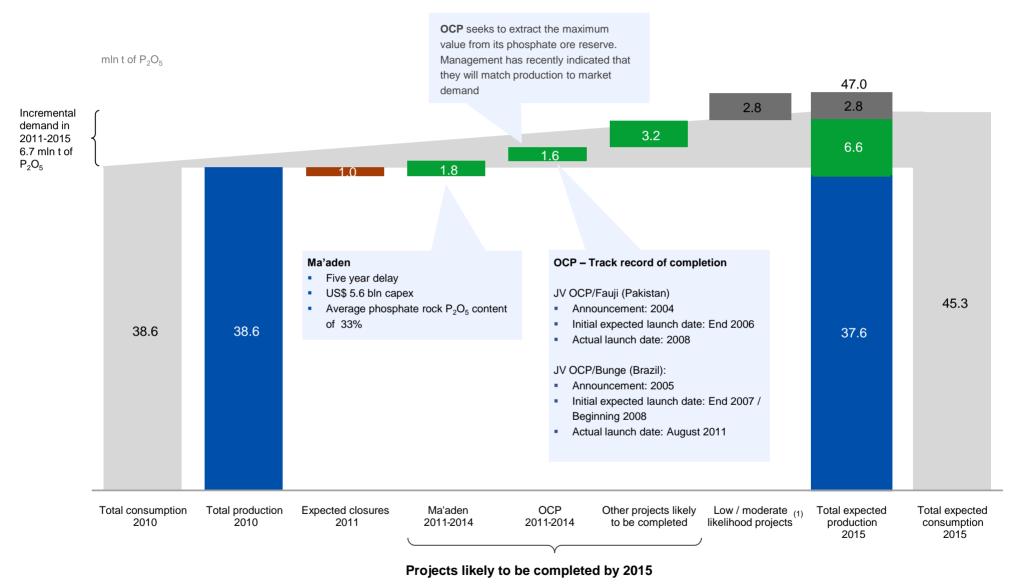
Construction period: 6 years +

Source: PhosAgro, Ma'aden

Notes: (1) CAPEX for the Phosphate Project



## Timing and completion of new capacities is uncertain



Note: (1) Projects with low / moderate likelihood of completion by 2015 Source: FERTECON, closures and new projects at 100% nameplate capacity, Fertiliser Week, IFA, companies' data

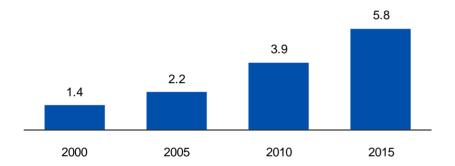


## Strong demand fundamentals for fertilisers

#### Meat consumption is driving demand for phosphate-based fertilisers and feed phosphates

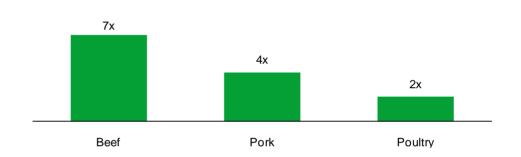
#### **Growing GDP per capita in Emerging Markets**

'000 US\$



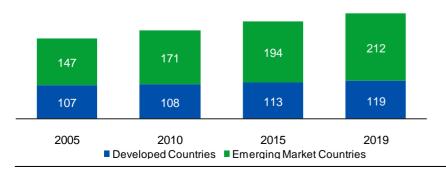
#### Animal feed a key driver for grain consumption

kg of grain required to produce 1 kg meat



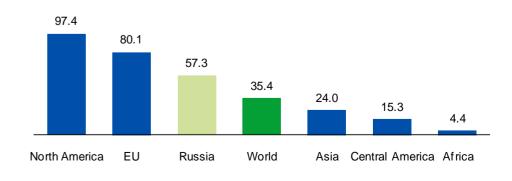
#### Changing diets – growth in meat consumption

mln t



#### **Meat Consumption by Region**

kg meat/capita/year

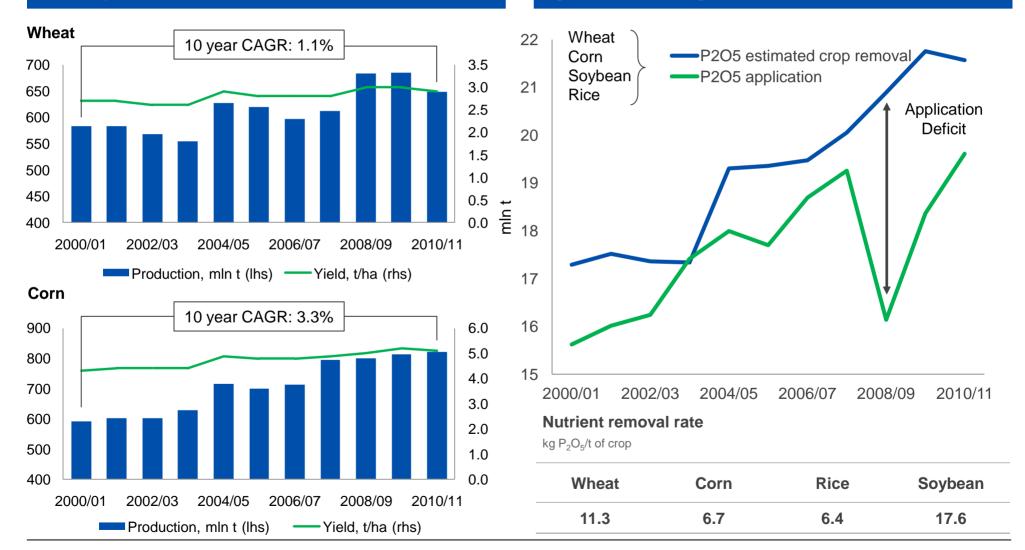




## Significant room for further growth of use of phosphate fertilisers

Stagnating yields force farmers to increase planted area to increase production

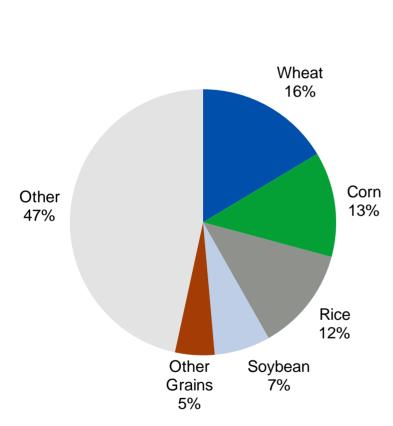
Insufficient application of phosphate fertilisers creates significant room for growth



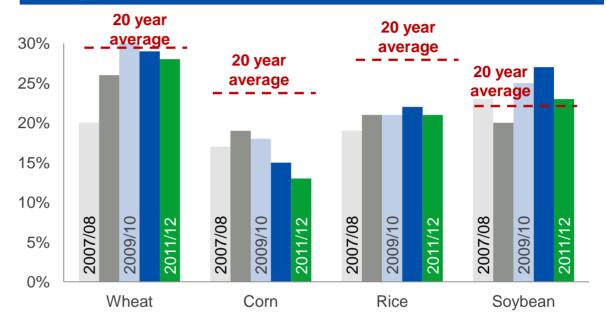


## Stock-to-use ratios for the key phosphate-using crops are at low levels driving crop prices

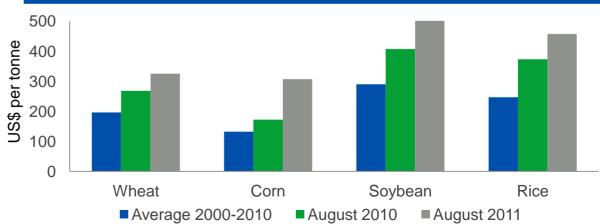
#### Phosphate fertilizer use by crop



#### World grain stocks-to-use ratios, %



#### Crop prices

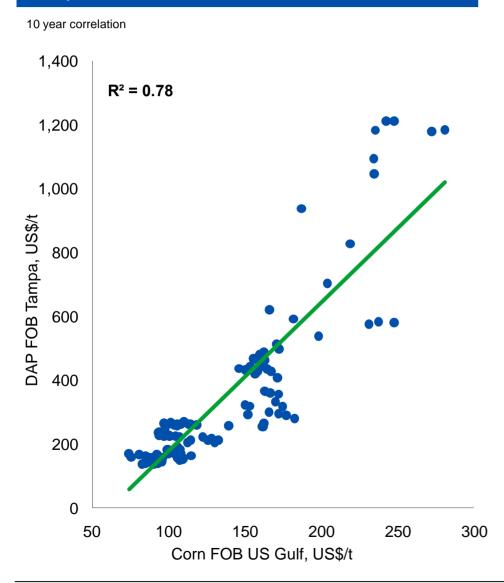


Source: USDA, FAO

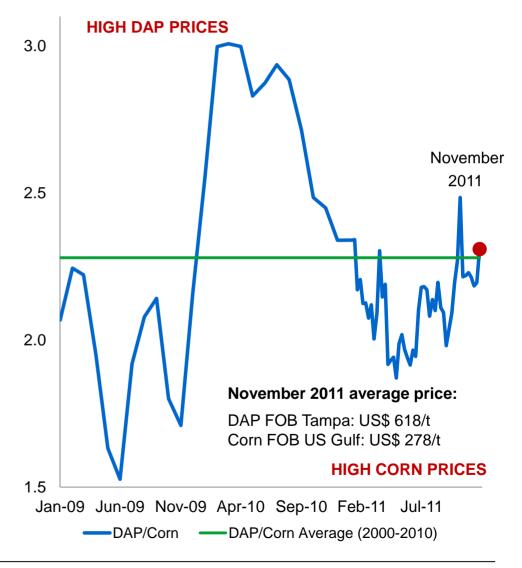


## High grain prices driven by market imbalance motivate farmers to use more fertilisers

#### **Corn prices relative to DAP Prices**



#### Corn to DAP prices ratio

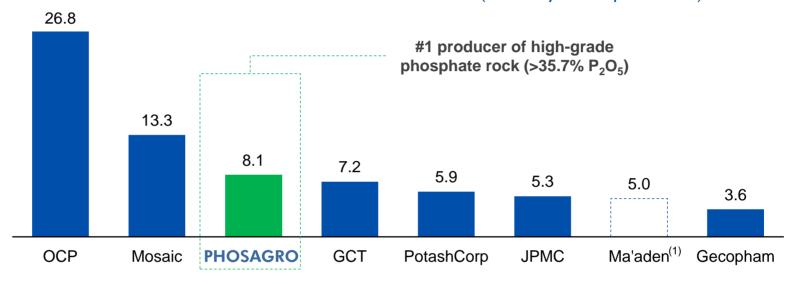


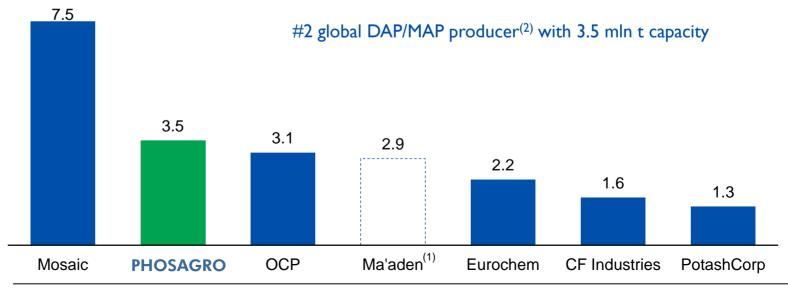




## World class integrated phosphate producer

A leading global phosphate rock producer with over 2.1 bln t of apatite-nepheline ore resources (over 75 years of production)







## Control of world's premium phosphate resource base

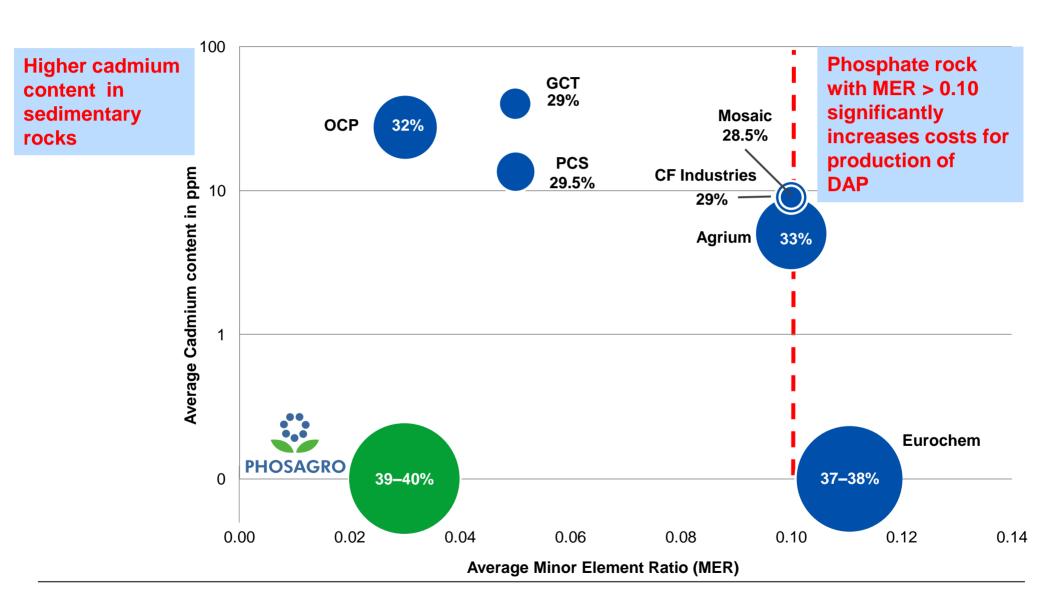
Location <sup>(1)</sup>	PHOSAGRO	Morocco	USA	Jordan	*: China	• Tunisia
Al <sub>2</sub> O <sub>3</sub> content	13.0-14.0% High	Very low	Very low	Very low	Very low	Low to moderate
Ore type	Igneous	Sedimentary	Sedimentary	Sedimentary	Sedimentary	Sedimentary
Level of radioactivity	Very low	Moderate	Moderate to high	Low to moderate	Low to moderate	Moderate
Hazardous metals content	Very low	Moderate	Moderate to high	Low	Low to moderate	Low to moderate
World Phosphate Rock Reserves, billion t	2.1	50	1.4	1.5	3.7	0.1

Note: (1) primary global DAP/MAP producing regions

Source: Fertecon, IMC, USGS 2011



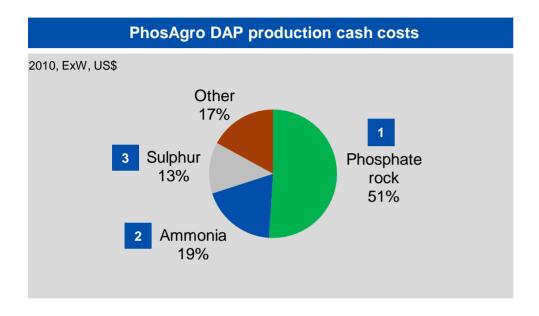
## Control of world's premium phosphate resource base

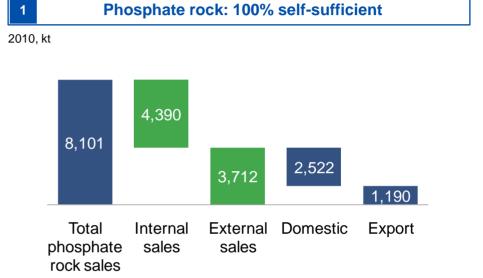


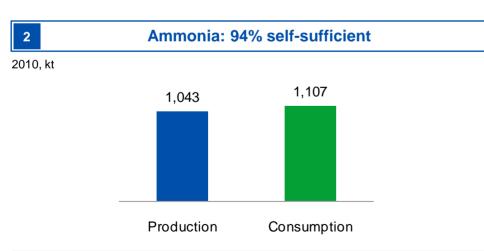
Note: Size of the bubble represents  $P_2O_5$  content in phosphate rock in excess of 28%, which is recognized as a minimum for production of high quality phosphate fertilizers Source: Fertecon, PhosAgro, companies' data

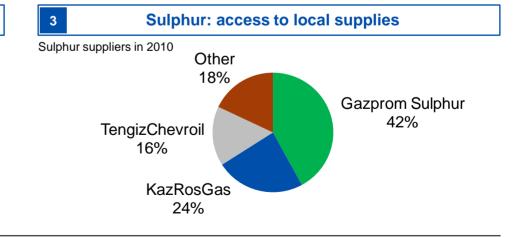


## Self-sufficiency in key feedstocks ...







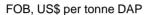


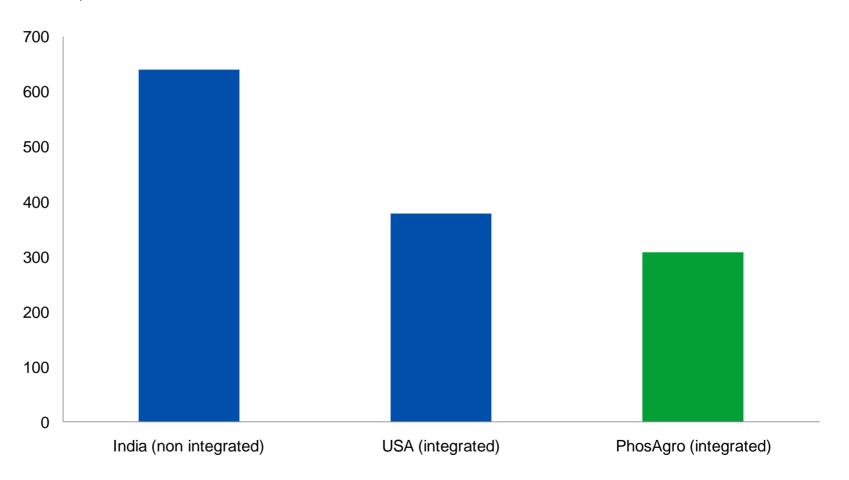
Source: PhosAgro



## Significant cost advantage for integrated producers

#### **Estimated DAP production cash costs**







### Flexible business model

#### Flexible business model

FLEXIBLE PRODUCTION CAPABILITIES

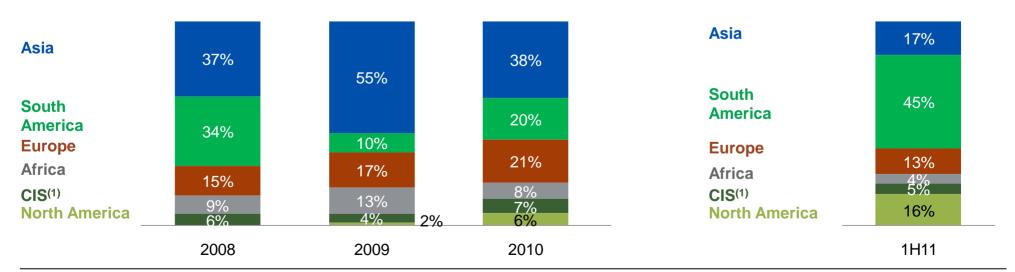
LOGISTICS ALTERNATIVES

NETBACK-DRIVEN
SALES
PRIORITISATION
SYSTEM

EXPORT SALES NOT TIED TO OVERSEAS DISTRIBUTION NETWORK

#### Phosphate-based fertilisers and feed phosphate exports by region

In volume terms



Source: PhosAgro

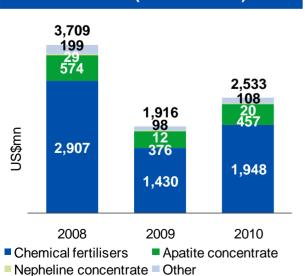
Note: (1) Excluding Russia

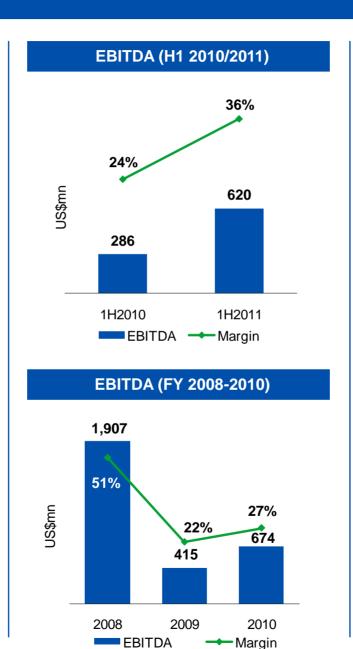


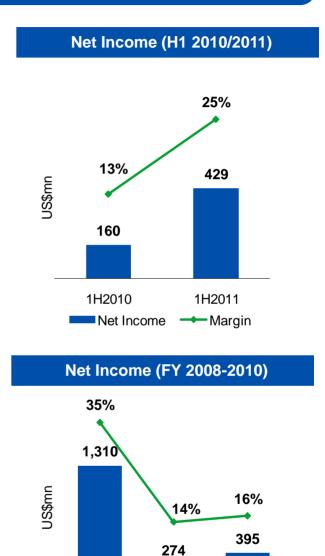


### Revenue, EBITDA and Net Income

#### Revenue (H1 2010/2011) Growth: 42% 1,704 60 12 253 1,200 51 10 228 US\$mn 1,378 911 1H2010 1H2011 Chemical fertilisers Apatite concentrate ■ Nepheline concentrate ■ Other Revenue (FY 2008-2010)







2009

2008

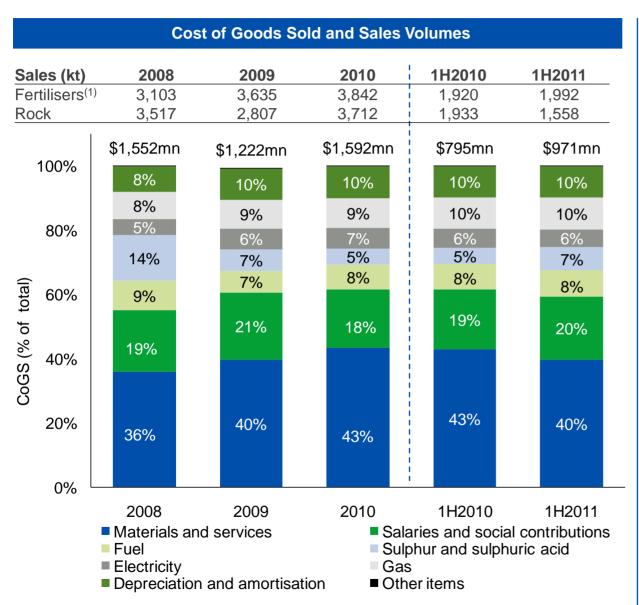
Net Income

2010

**→** Margin

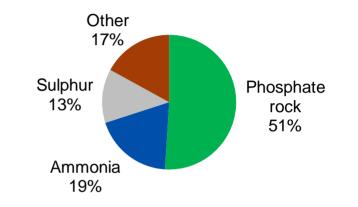


#### Cost of Goods Sold



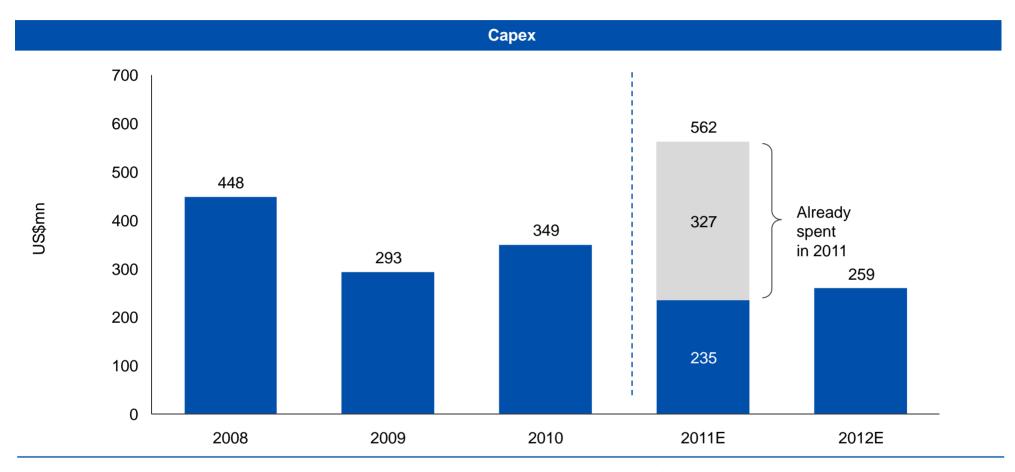
#### **DAP Production Cash Cost Breakdown**

ExW, US\$, 2010





## Capex and Dividend Policy



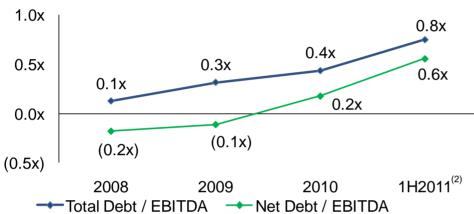
#### **Dividend Policy**

- PhosAgro expects to pay between 20% and 40% of consolidated profit for the year calculated in accordance with IFRS as dividends. The Board of Directors recommended the payment of preliminary dividend of US\$ 7.83 (RUB 250) per share to the Extraordinary Shareholders Meeting to be held on December 1, 2011.
- For 2011 PhosAgro intends to pay out no less than 30% of the consolidated net income generated in the last 3 quarters of the year (from April 1 to December 31)

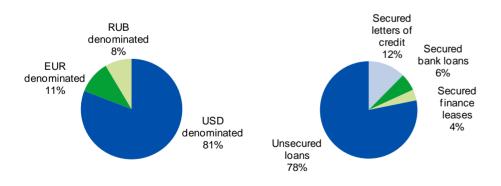


### Overview of Debt

## Total Debt / EBITDA and Net Debt (1) / EBITDA



#### Types of debt instruments (3)



#### **Net Debt**

Actual Net Debt as of 30 June 2011	(USD in millions
Total Debt, incl.:	95
Short-term debt	40
Long-term debt	54
Cash and cash equivalents	(248
Net Debt	70

Source: PhosAgro

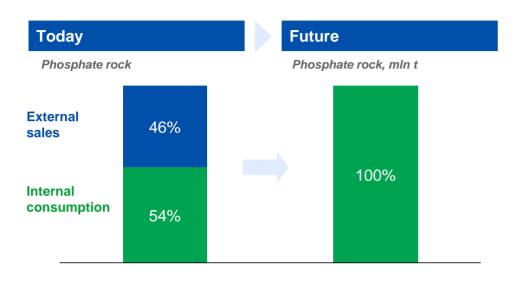
Note: Applied end-of-period USD/RUB exchange rate of 28.08 (1H2011)

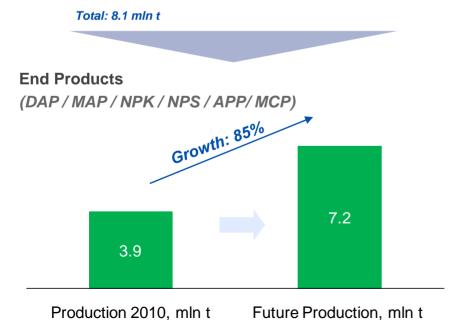
- (1) Net debt is calculated as total loans and borrowings minus cash and cash equivalents
- (2) Based on annualized EBITDA
- (3) As of June 30, 2011. Includes secured bank loans, unsecured bank loans and letters of credit. Total loans and borrowings US\$953mn





## Long term strategy for volume growth of fertilisers





#### **Future Potential Strategic initiatives**

The future development of Shtokman field would allow PhosAgro to build new fertiliser capacity near its mines and simplify its export logistics



Source: Gazprom, PhosAgro



# Thank You