



## **Morgan Stanley Global Chemicals Conference**

14-15 November 2012, Boston



# 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 7.8 mln t capacity
- #2 global DAP/MAP producer<sup>(1)</sup> with 3.6 mln t capacity and DAP/MAP/NPK/NPS capacities of 4.1 mln t
- Leading European producer of MCP feed phosphate and the only one in Russia

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 92% in ammonia
- Local low-cost supplies of sulphur and potash

Strong position in prime agricultural markets

- Established presence through traders in North and South America, Asia and Europe
- Top-3 exporter of DAP/MAP globally
- Leader in the fast-growing Russian market

Strong financial performance

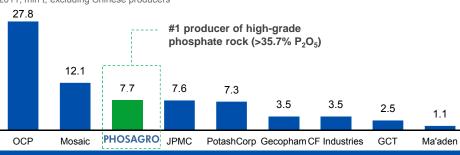
- EBITDA of \$1,204 mn and \$559 mn in 2011 and in H1 2012, respectively
- Net debt/EBITDA: < 0.5x</li>

Note: (1) Excluding Chinese producers

- (2) PhosAgro, IMC
- (3) Russian Academy of Science Source: FERTECON, IFA, companies data, PhosAgro

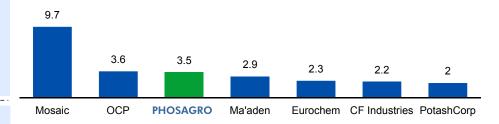
2011, mln t, excluding Chinese producers

Leading global phosphate rock producers (by production)

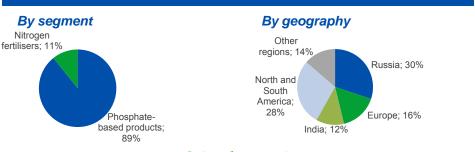


#### Leading global DAP/MAP producers (by capacity)

2011, mln t, excluding Chinese producers



#### 2011 sales breakdown



2011 Sales: \$3,420 mln

Source: FERTECON, companies' data

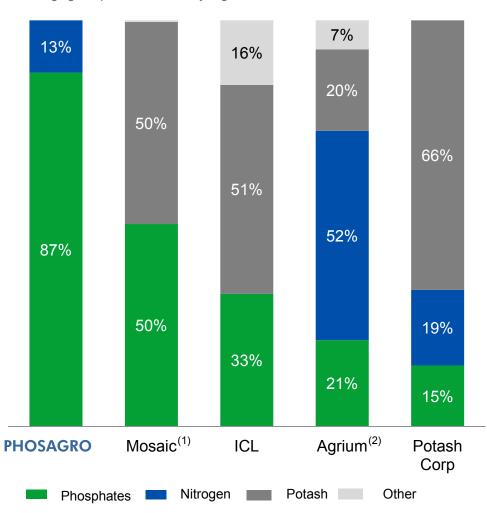




## The only pure play phosphates producer

#### Gross profit breakdown by segment

Average gross profit breakdown by segment for 2008-2011

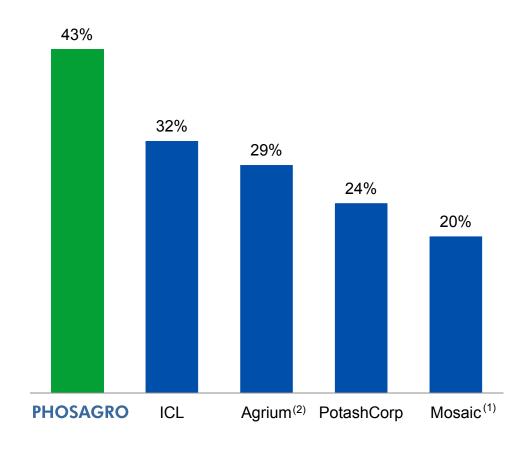


Source: Companies' reports Note: (1) Calendarised

(2) Excluding resale, retail and advanced technologies

#### Phosphate segment gross profit margin

Average gross profit margin of phosphate segment for 2008-2011

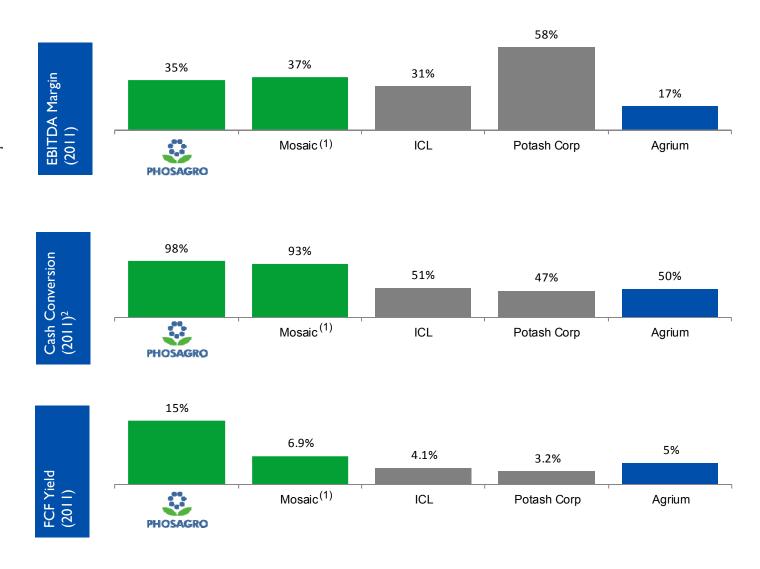


Source: Companies' reports Note: (1) Calendarised (2) Wholesale



## PhosAgro Benchmarks Favourably Against Key Competitors

- PhosAgro compares well against its global peers on EBITDA margin basis
- PhosAgro strongly outperformed all major peers in terms of Cash Conversion and FCF Yield basis



Source: Companies' reports, Bloomberg

Note: (1) Calendarised

(2) Calculated as operating cash flow minus capital expenditures divided by net income adjusted for minorities



## 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

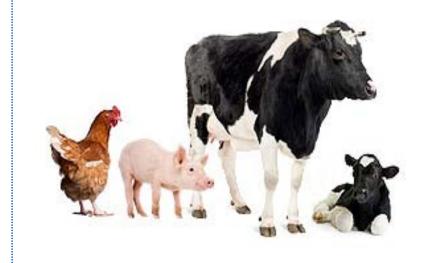


- Cheese
- Processed meat



· Soft drinks

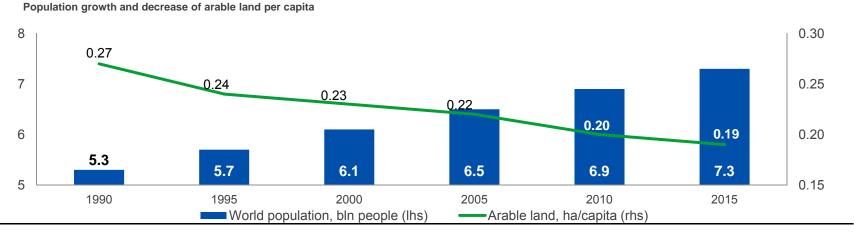




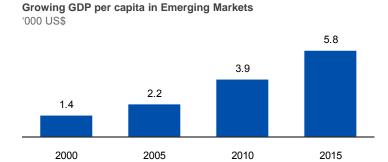


## Strong demand fundamentals for fertilisers

Phosphate is the most important nutrient for distressed land



Meat consumption is driving demand for phosphatebased fertilisers and feed phosphates

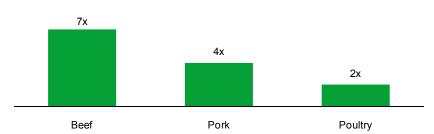






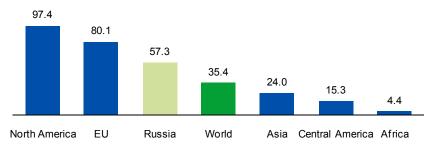
#### Animal feed a key driver for grain consumption

kg of grain required to produce 1 kg meat



#### Meat Consumption by Region

kg meat/capita/year





## Phosphorus is essential for life

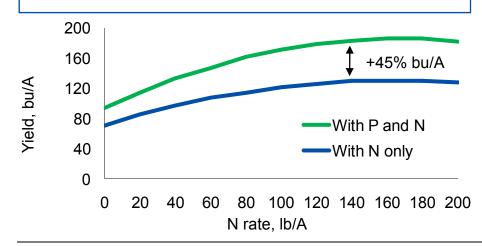
#### Fertilisers – 85%<sup>(1)</sup>



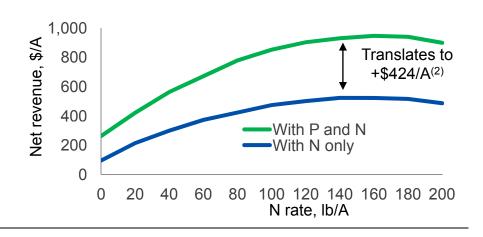
Without phosphate fertilisers

With phosphate fertilisers

### Effect of phosphate and nitrogen fertilisers on corn yield



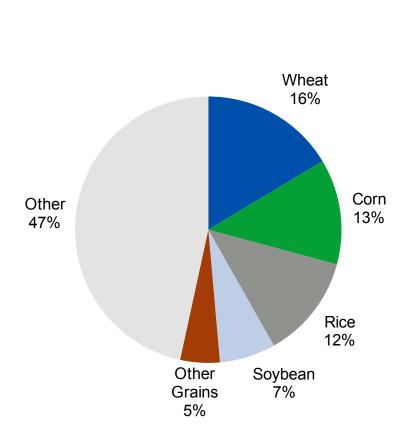
## Effect of phosphate and nitrogen fertilisers on net farmer revenue



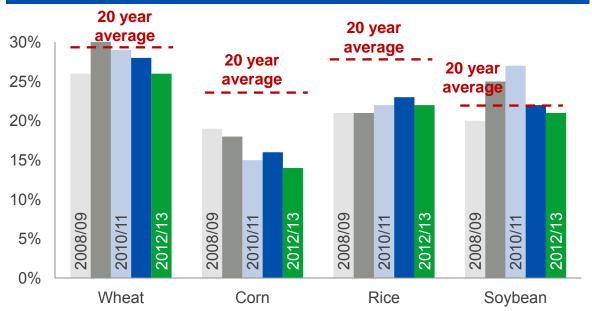


# Stock-to-use ratios for the key phosphate-using crops are at low levels driving crop prices

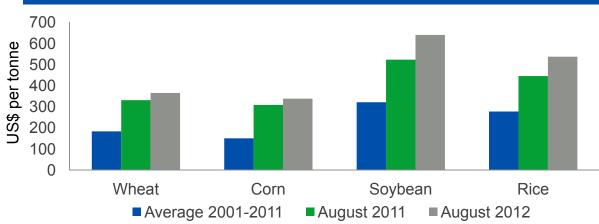
#### Phosphate fertiliser use by crop



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



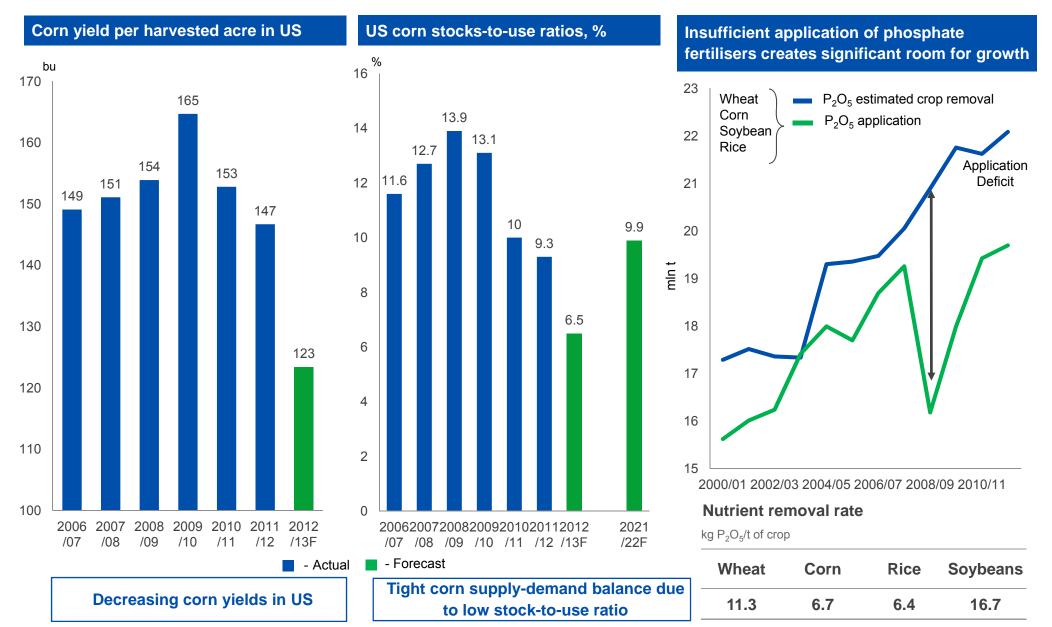
### Crop prices



Source: USDA, FAO



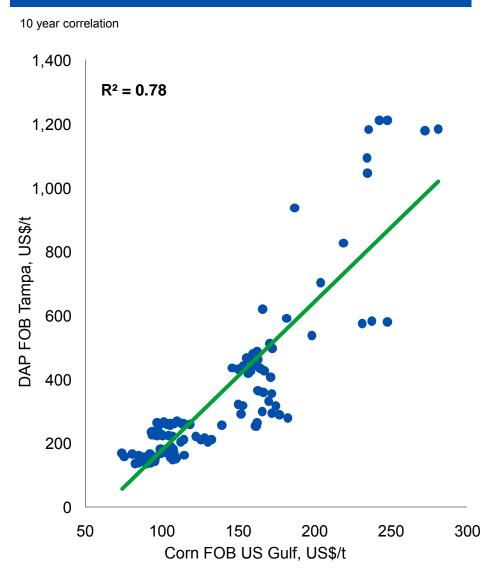
## Significant room for further growth of use of phosphate fertilisers



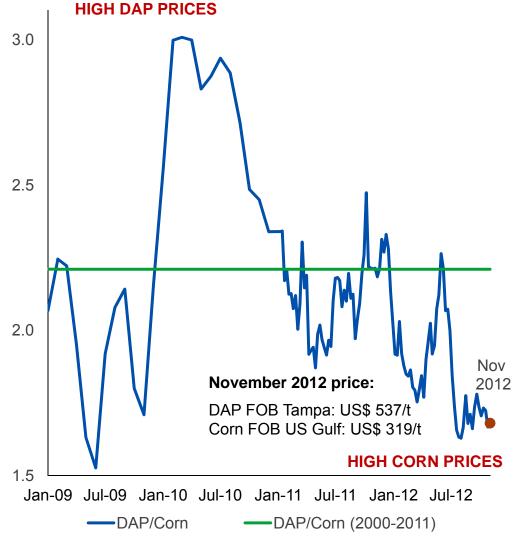


## High grain prices driven by market imbalance motivate farmers to use more fertilisers

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



#### Corn to DAP prices ratio





# 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



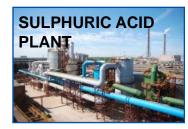
14.9 mln t (12.9% P2O5)



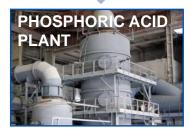
4.35 mln t (39% P2O5)



1.29 mln t



3.90 mln t



1.60 mln t



746 mln m<sup>3</sup>



0.68 mln t



**Outbound Logistics** 



0.75 mln t



# Only few countries have domestic resource base which is significant enough to produce phosphate fertilisers

#### Production/resources of phosphate rock, natural gas and sulphur

	Region Phosphate Rock, mlr		ock, min t	Natural Gas, bln cm		Sulphur, k t	
		Production	Resources	Production	Resources	Production	Import
_	World	180.7	65,000	3,276	208,400	77,184	28,600
1	Russia	10	4,300	607	44,600	7,305	0
2	USA	27.6	1,400	651	8,500	9,091	3,066
3	Saudi Arabia	5*	7,690	100	8,200	3,200	0
4	Canada	1.0	2.0	161	2,000	7,091	0
5	China	75.1	3,700	103	3,100	15,626	10,085
6	Kazakhstan	1.5	3,100	19	1,900	2,857	0
7	Mexico	1.4	1,000	53	400	1,374	368
8	Iraq	_	5,800	2	3,600	125	0
9	Australia	2.0	250	45	3,800	991	513
10	Peru	2.2	1,453	11	400	490	0
11	Brazil	6.1	310	17	500	522	1,952
12	India	2.1	85	46	1,200	2,776	1,807

Source: USGS, IFDC, BP, PhosAgro

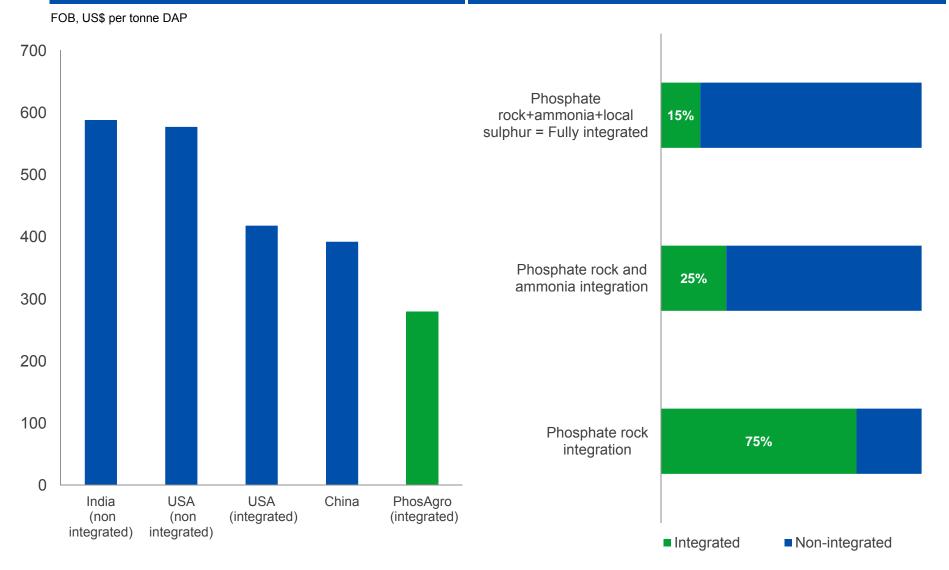
<sup>\*</sup> Ma'aden projection



## Significant cost advantage for integrated producers

#### Estimated DAP production cash costs<sup>(1)</sup>

**Key feedstock integration in the World Phosphate Industry**<sup>(2)</sup>



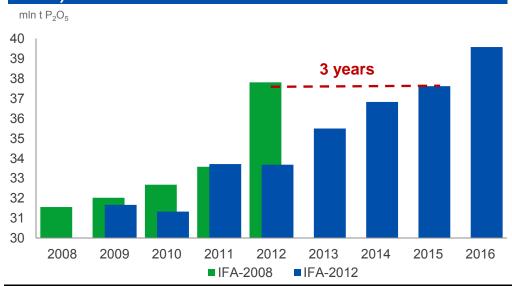


# Commissioning phosphate rock and phosphoric acid capacities

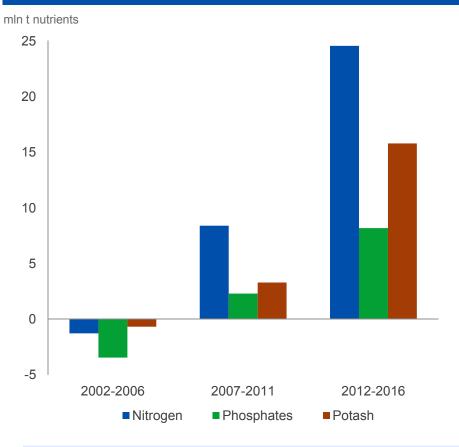
#### Delays in addition of new phosphate rock capacities (excl. China)

#### mln t 180 3 years 170 160 3 years 150 140 130 120 2008 2009 2010 2011 2012 2013 2014 2015 2016 ■IFA-2012 ■IFA-2008

## Delays in commissioning phosphoric acid capacities (excl. China)



#### Changes in world fertiliser capacities (excl. China)



- Less new projects are announced in phosphates
- Commissioning of new capacities is delayed
- Shutdown in phosphate fertiliser capacities was more significant while less new commissioning in the past 5 years in comparison with nitrogen and potash sectors



## Greenfield plant – costs case-study

Production facilities  Capacity – mln t / year	Ma'aden	PHOSAGRO
Phosphate rock mine	12.0	26.6
Beneficiation plant	5.0	7.8
Sulphuric Acid Plant	4.7	4.6
Phosphoric Acid Plant	1.5	1.9
Ammonia Plant	1.1	1.1
DAP Plant	2.9	4.1
Key products	DAP	MAP, DAP, NPK, NPS

Ma'aden – total est. CAPEX<sup>(1)</sup>: US\$ 5.8bln

Construction period: 6 years +

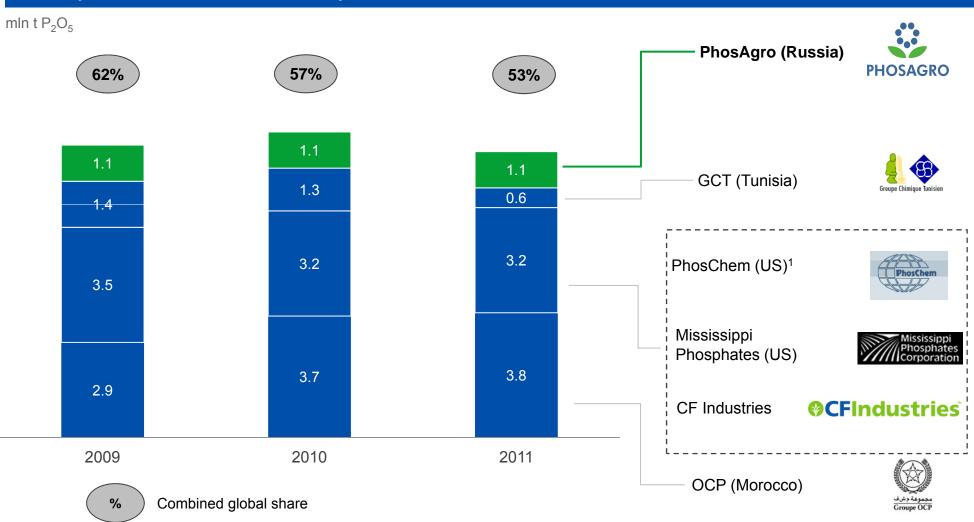
Source: PhosAgro, Ma'aden

Notes: (1) CAPEX for the Phosphate Project



## Phosphate is a consolidated industry

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

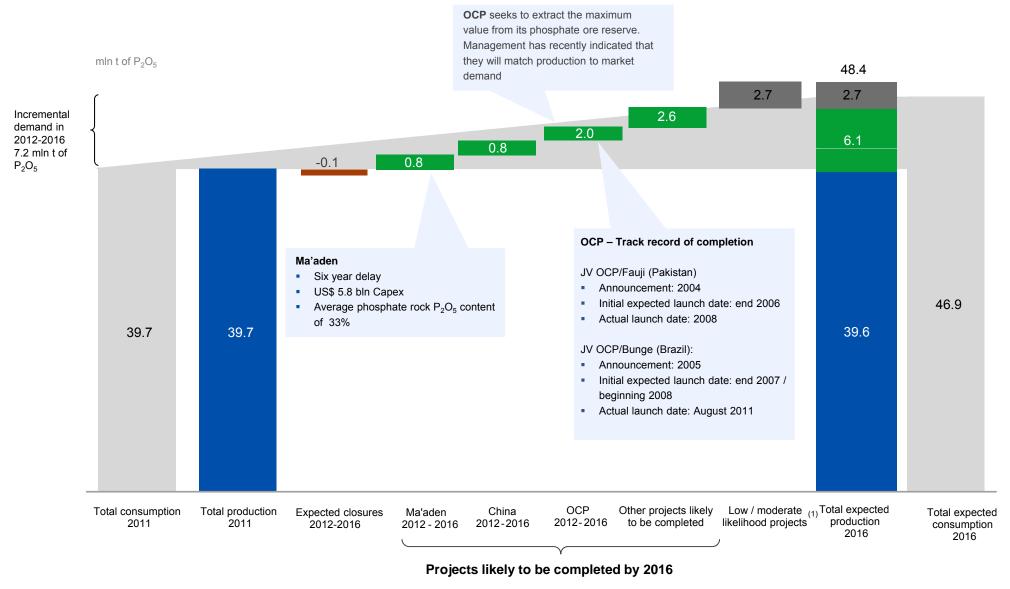


Source: Fertecon, IFA , Bloomberg, companies reports

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



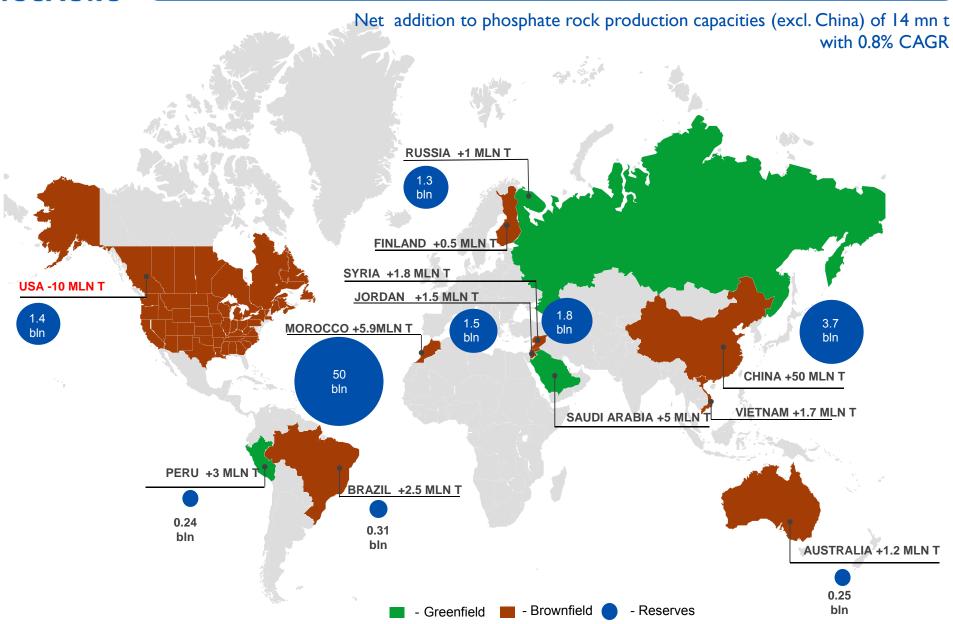
## Timing and completion of new capacities is uncertain



Note: (1) Projects with low / moderate likelihood of completion by 2016 Source: FERTECON, closures and new projects at 100% nameplate capacity, Fertiliser Week, IFA, companies' data



## Growth in phosphate rock production capacities 2000-2011

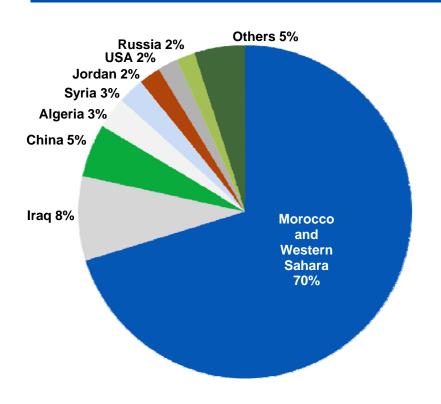


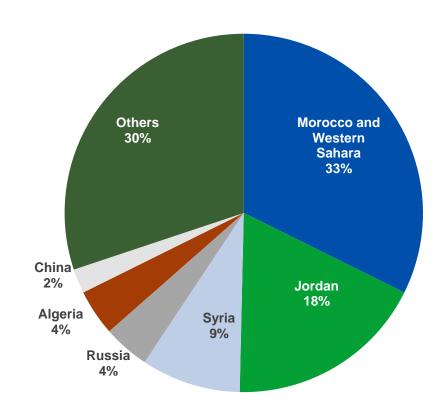


## Concentrated phosphate rock market

Morocco controls most of world phosphate ore reserves

Only few countries export phosphate rock





## Consolidation drivers

- Deposits of phosphate ore are located in a limited number of countries. And Morocco controls most of the world's phosphate ore reserves
- Only few countries export significant volumes of phosphate rock and Morocco has a substantial share in export sales of phosphate rock respectively

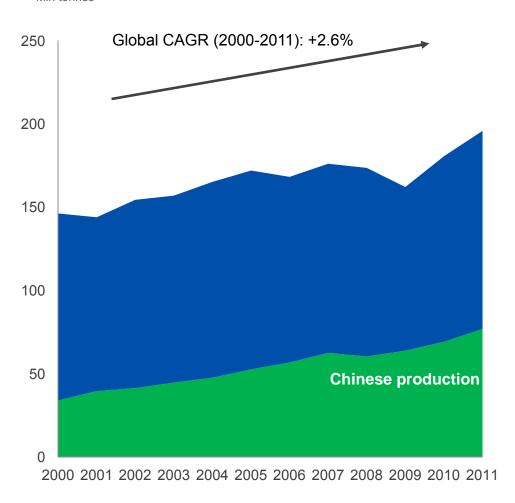
Source: USGS



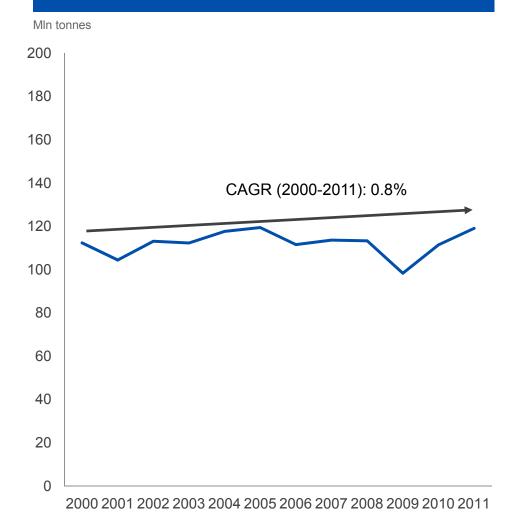
## Stagnating production of phosphates

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

MIn tonnes



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

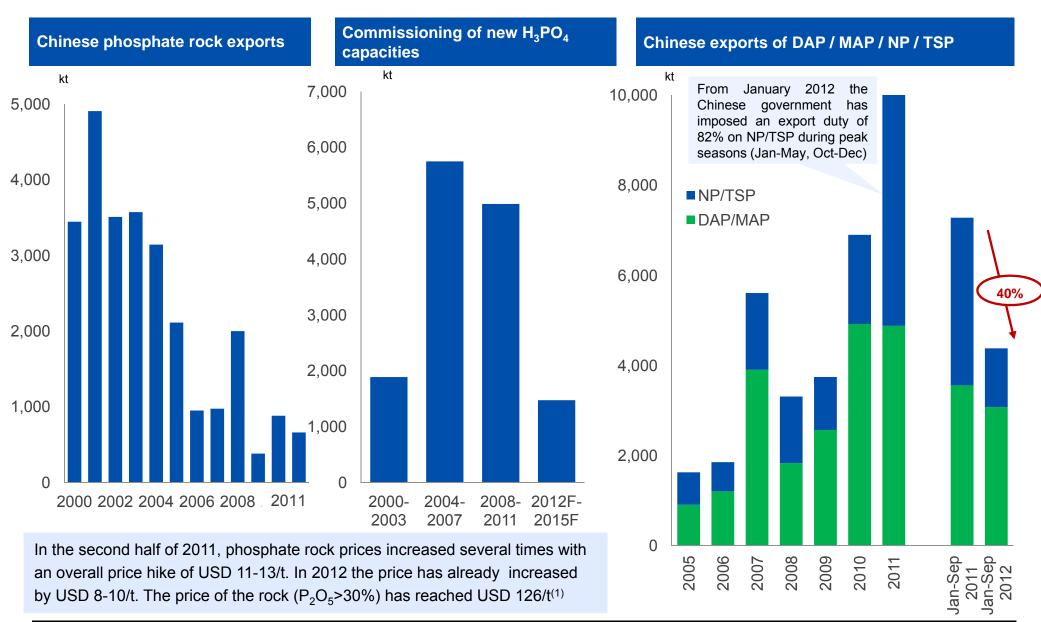


Source: IFA, FERTECON

Source: IFA, China Fert Market Weekly, FERTECON



## Development of Chinese phosphate exports



Source: IFA, CFMW

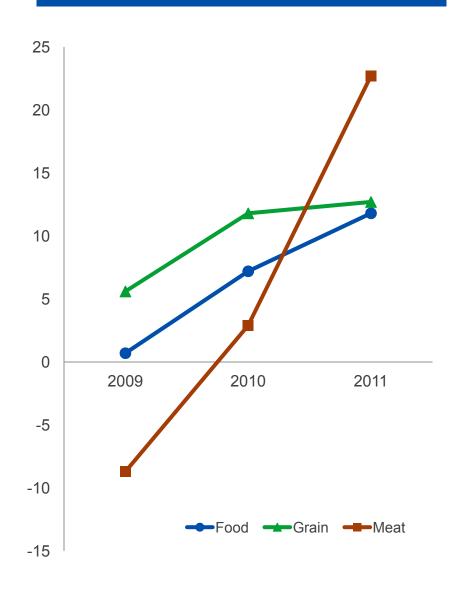
Note: (1) Applied exchange rate USD/CNY: 6.35

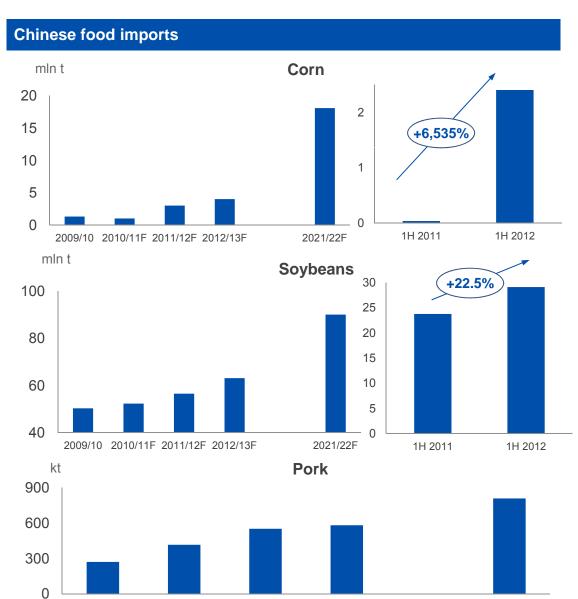


## Growing food demand in China

2021/22F

#### Consumer price indices in China, %





2009/10

2010/11F

2011/12F

2012/13F

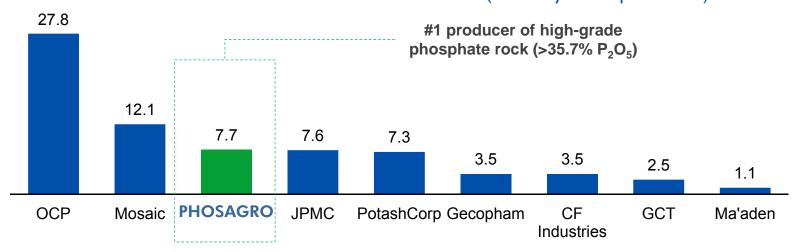




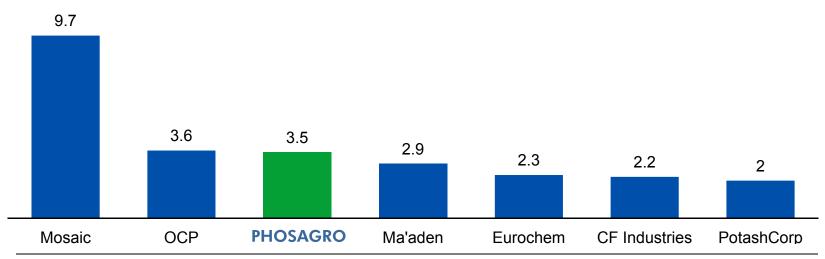
## World class integrated phosphate producer

2011, mln t, excluding Chinese producers

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



#2 global DAP/MAP producer(1) with 3.6 mln t capacity



Source: FERTECON, IFA, companies' data Note: (1) In 2011, excluding Chinese producers



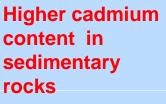
## Control of world's premium phosphate resource base

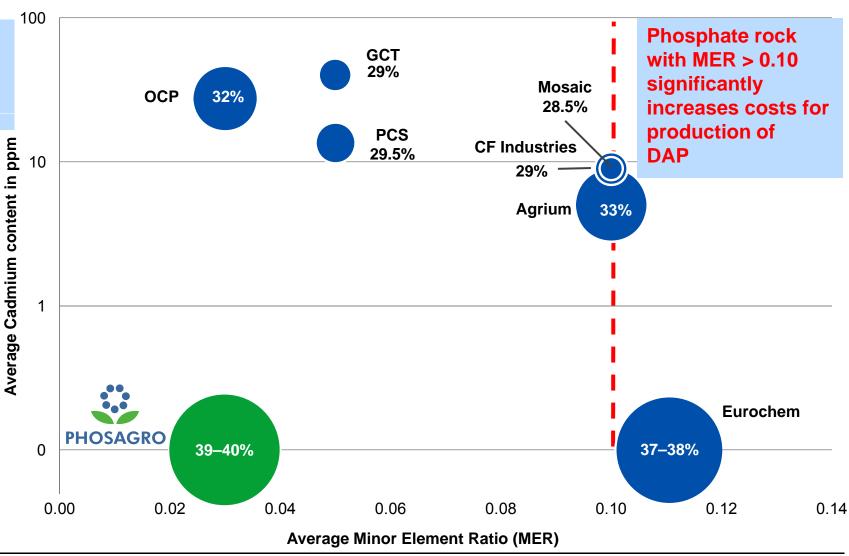
Location <sup>(1)</sup>	PHOSAGRO				*:		
		Morocco	USA	Jordan	China	Tunisia	
Al <sub>2</sub> O <sub>3</sub> content	13.0-14.0% High	Very low	Very low	Very low	Very low	Low to moderate	
Ore type	Igneous	Sedimentary	Sedimentary	Sedimentary	Sedimentary	Sedimentary	
Level of radioactivity	Very low	Moderate	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



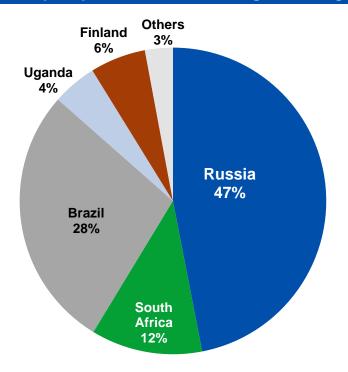


Note: Size of the bubble represents  $P_2O_5$  content in phosphate rock in excess of 28%, which is recognized as a minimum for production of high quality phosphate fertilisers Source: FERTECON, PhosAgro, companies' data

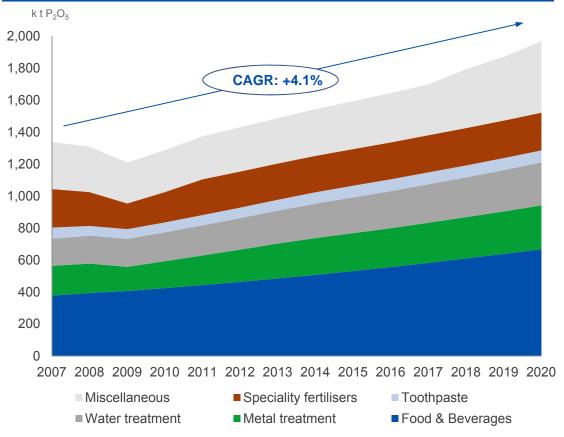


## Growth in demand for igneous phosphate rock

#### World phosphate ore reserves of igneous origin



## Consumption of phosphates for industrial chemicals and feed phosphates, $P_2O_5$



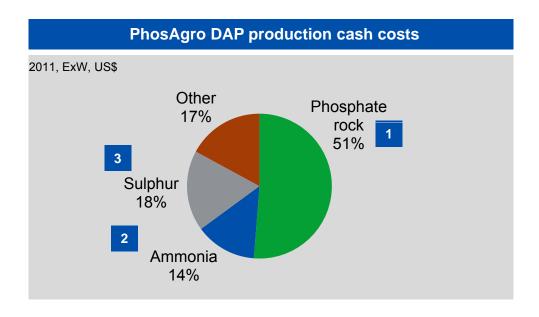
### **Prospects for growth**

- Phosphate rock of igneous origin is applied as a feedstock for industrial chemicals and feed phosphates due to the lowest radioactivity level, low heavy metals and cadmium content in comparison with phosphate ore reserves of sedimentary origin
- As production of industrial phosphates and food additives will grow, the increase in demand for phosphate rock of igneous origin is expected for the applications other than fertiliser production

Source: IFDC, CRU 28

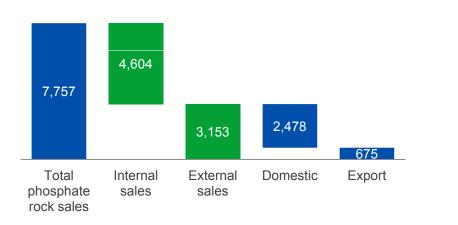


## Self-sufficiency in key feedstocks



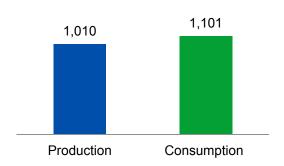


2011, kt



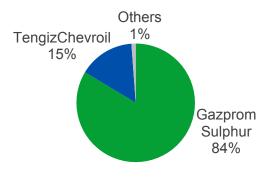
### 2 Ammonia: 92% self-sufficient

2011, kt



### 3 Sulphur: access to local supplies

Sulphur suppliers in 2011



Source: PhosAgro



## Flexible business model

#### Flexible business model

FLEXIBLE PRODUCTION CAPABILITIES

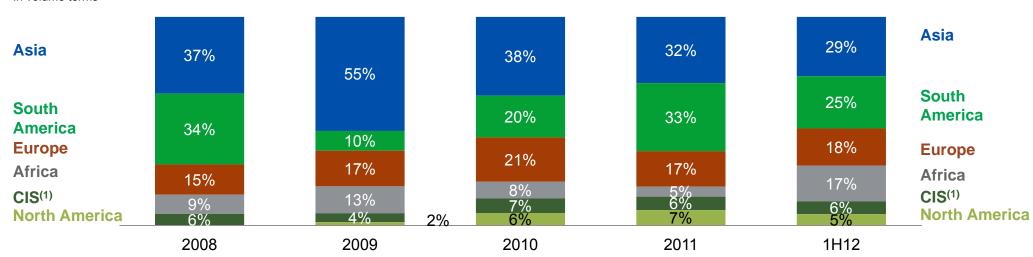
LOGISTICS ALTERNATIVES

NETBACK-DRIVEN
SALES
PRIORITISATION
SYSTEM

EXPORT SALES NOT TIED TO OVERSEAS DISTRIBUTION NETWORK

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



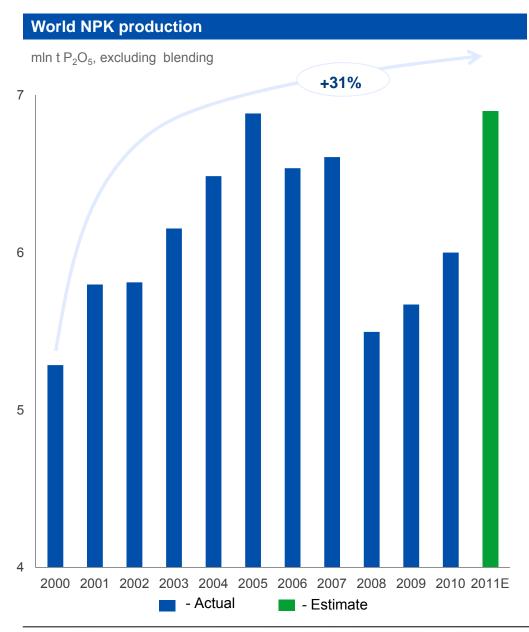


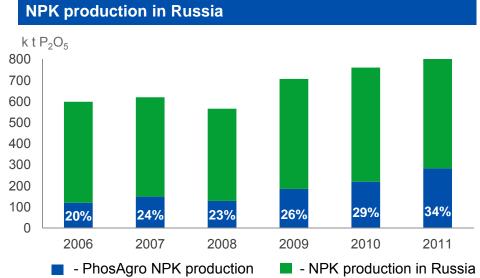
Source: PhosAgro

Note: (1) Excluding Russia

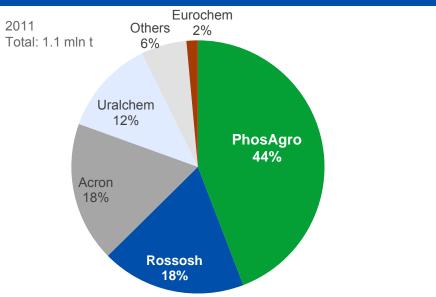


## NPK fertilisers - the need to increase yields by balanced fertilisation





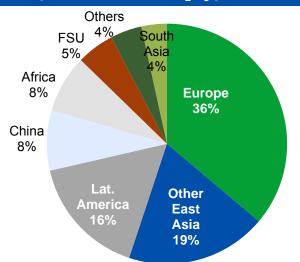
#### PhosAgro – main supplier of NPK to the domestic market



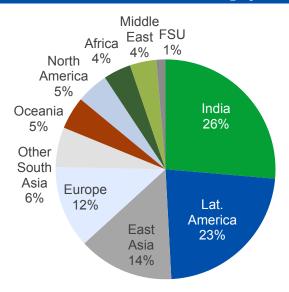


## PhosAgro flexible model meets global demand for NPK

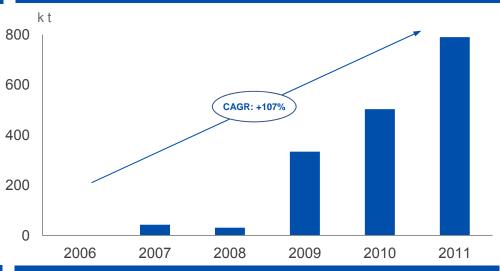
### World NPK Imports: ~2 mln t of P<sub>2</sub>O<sub>5</sub> per annum<sup>(1)</sup>



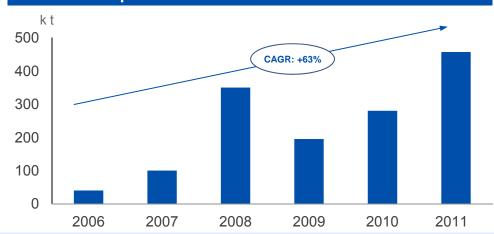
World DAP/MAP Imports: ~8.5 mln t of P<sub>2</sub>O<sub>5</sub> per annum<sup>(1)</sup>



#### **PhosAgro NPK Exports**



#### **Brazil NPK Imports**



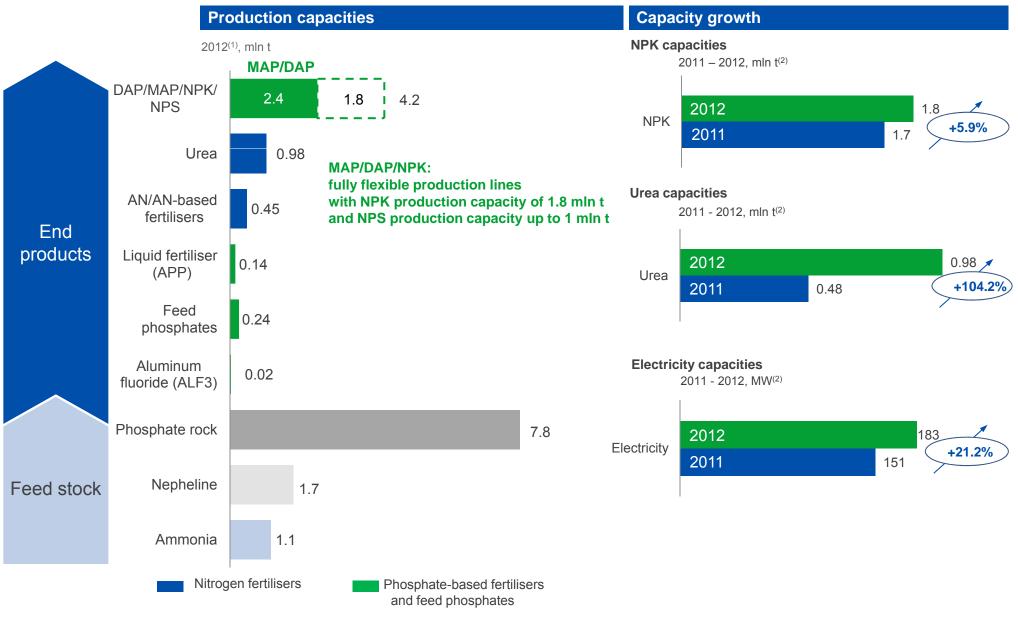
- Reliable sources of nitrogen and phosphates are critical in the economics of granular NPKs. They are rarely found in the same place.
- PhosAgro exports NPK fertilisers to developed as well as to fast growing markets

Source: IFA, FCC, PhosAgro

Note: (1) Average figures for 2005-2010



## Organic growth through addition of new capacities

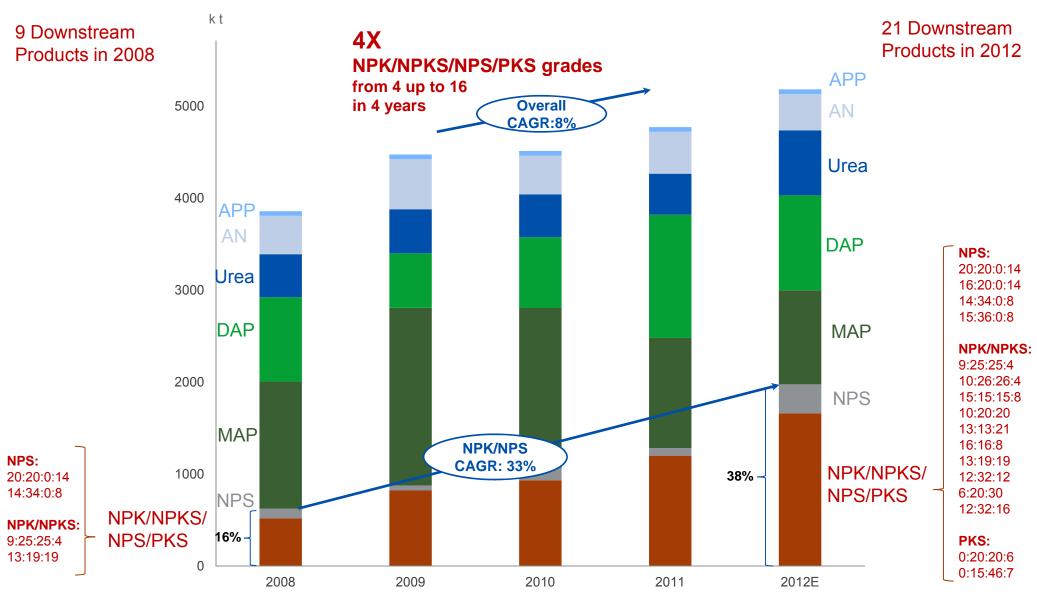


Source: PhosAgro

Note: (1) production capacities as of October 26, 2012 (2) as of 31 December 2011 and 26 October 2012



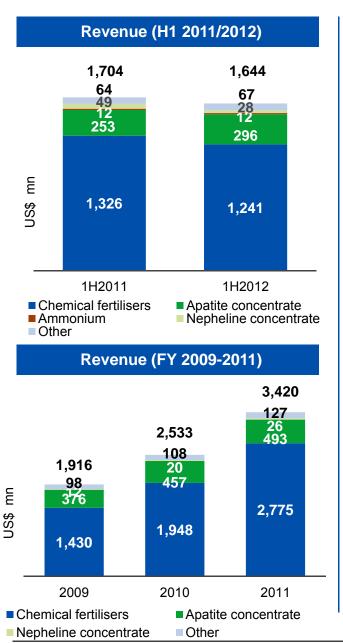
# PhosAgro increases production and flexibility with growth in number of NPK/NPS grades



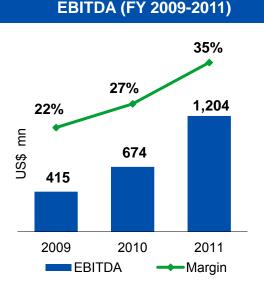




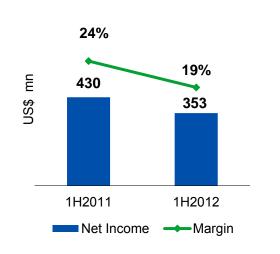
## Revenue, EBITDA and Net Income



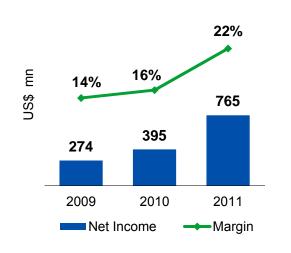




#### Net Income (H1 2011/2012)



#### Net Income (FY 2009-2011)

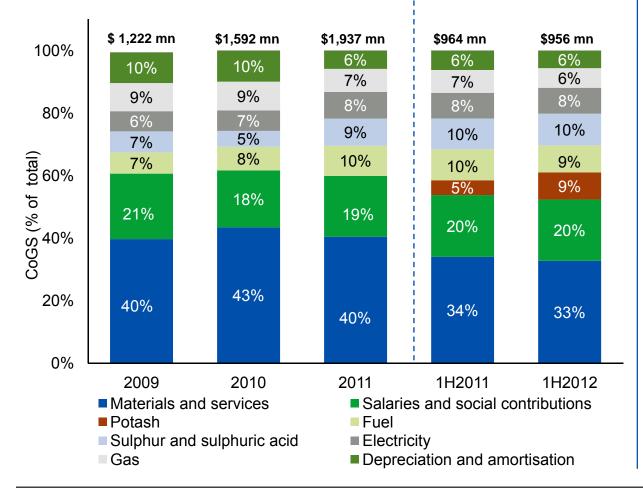




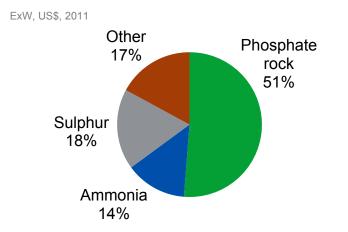
## Cost of Goods Sold

#### **Cost of Goods Sold and Sales Volumes**

Sales (kt)	2009	2010	2011	1H2011	1H2012
Fertilisers(1)	3,635	3,842	4,062	1,992	2,123
Rock	2,807	3,712	3,153	1,588	1,677

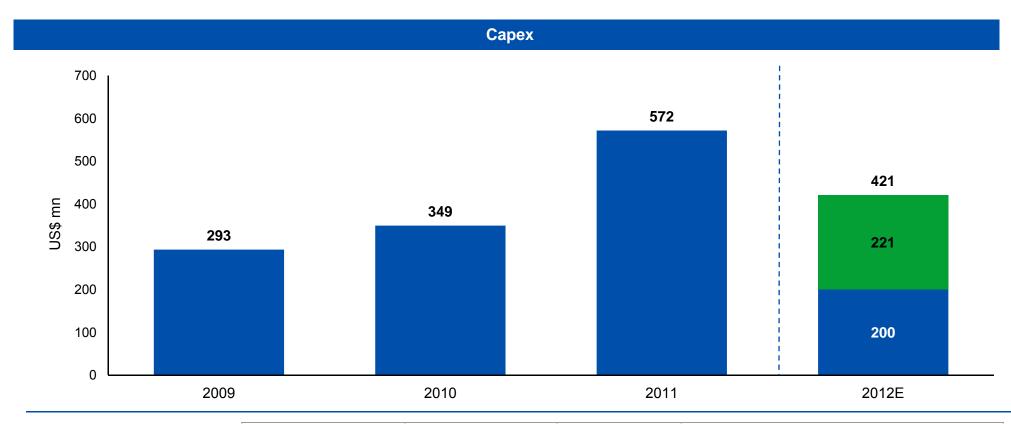


#### DAP production cash cost breakdown





## Capex and Dividend Policy



#### **Dividends**

Post-IPO dividends	Dividends, RUB bln	% of Net Profit	Payout		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	per share, RUB	per GDR, US\$	
2011 April-December	7.2	49	58	0.61	
1H 2012	4.7	56	38	0.41	
Total	11.9	52	96	1.02	

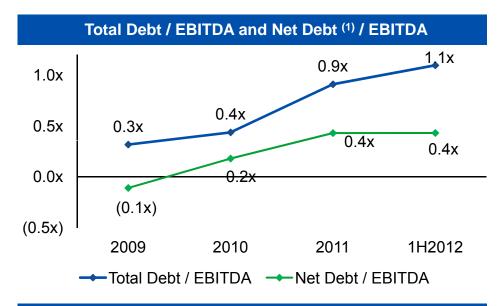
- Post-IPO dividend yield > 5%
- Formal policy to pay between 20% to 40% of annual consolidated profit calculated in accordance with IFRS as dividends

Source: PhosAgro

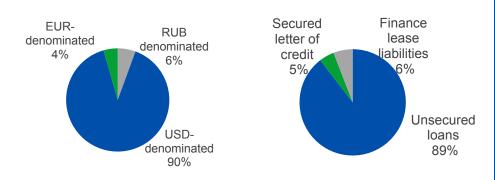
Note: Applied average USD/RUB exchange rates: 31.72 (2009), 30.37 (2010), 29.39 (2011), 30.64 (1H2012)



## Overview of Debt



## Types of debt instruments (2)



#### **Net Debt**

Actual Net Debt as of 30 June 2012	(USD in millions)
Total Debt, incl.:	1,144
Short-term debt	800
Long-term debt	344
Cash and cash equivalents	(694)
Net Debt	450

Source: PhosAgro

Note: Applied end-of-period USD/RUB exchange rate of 32.82 (H1 2012)

<sup>(1)</sup> Net debt is calculated as total loans and borrowings minus cash and cash equivalents

<sup>(2)</sup> As of June 30, 2012. Includes secured bank loans, unsecured bank loans, letters of credit and finance lease liabilities. Total loans and borrowings US\$ 1,144 mn





## Short and medium term strategy for future growth

## **Strategic objectives**

### **Key initiatives**

1 Improve efficiency

 Construction of shaft No. 2 at Kirovsky Underground Mine, which will increase annual apatite-nepheline ore production from 12 to 14 mln t from 2014

Expand fertiliser production capacity and enter higher value segments

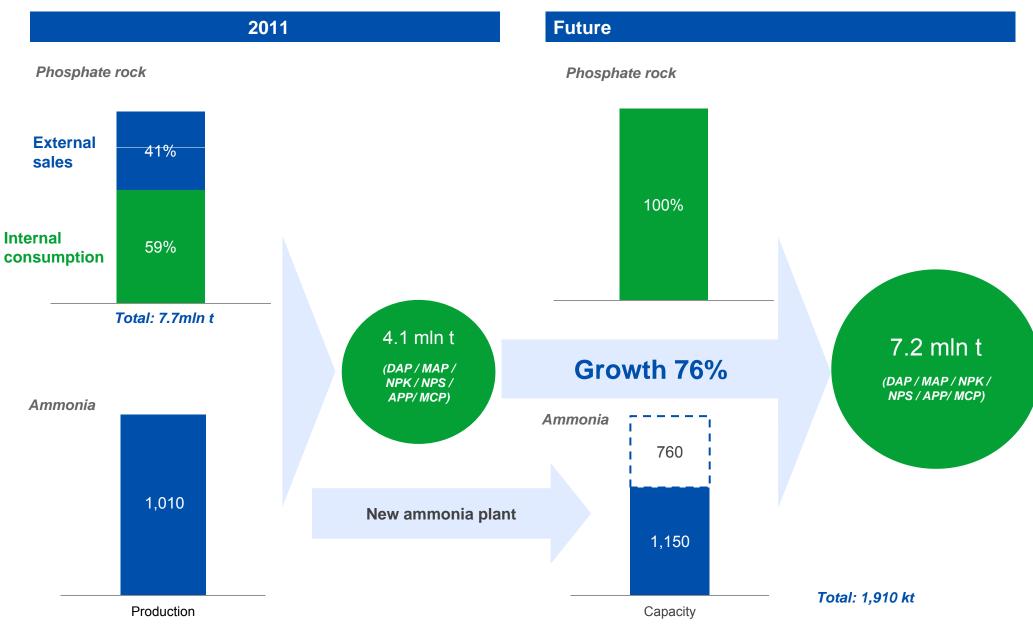
- Construction of a new ammonia plant with 760 k tonnes per annum capacity at Cherepovets site
- Enter the technical phosphates and SOP (sulphate of potash) markets through the integration of Metachem products (acquired 24% stake in the company in 2011)
- Modernization of BMF's facilities to enable production of NPK with 450 k tonnes per annum capacity

3 Realize full potential of ore

Mineral	Application	Development	Production	
	11	Stage	Today	Future
Apatit • Rare Earth Oxides	<ul><li>Autocatalysts, fuel cells</li><li>High strength magnets, ceramics</li><li>Fiber optics, lasers</li></ul>		-	7k t
Nepheline  • Aluminium Oxide			1.0 mln t	6.0 mln t
	Alumina, Cement, Catalysts			
<ul><li>Potassium carbonate</li><li>Soda Ash</li><li>Potassium Sulfate</li></ul>	Glass production, agriculture, household chemicals		0.25 mln t	1.50 mln t
Gallium Oxide	Electronic engineering, lasers, lubricants			



## Long term strategy for volume growth of fertilisers







# Thank You

