



**PHOSAGRO**

**Presentation  
for 1-on-1 meetings**  
*March, 2016*



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*PhosAgro  
and  
the global fertilizer industry*



## World class integrated phosphate producer

- #1 global producer of high-grade phosphate rock
- #3 global DAP/MAP producer<sup>(1)</sup>
- Overall fertilizer capacity of 7.1 mln t

## Large high quality apatite-nepheline resources

- 2.05 bln t of 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 rare earth oxides (41% of Russian resources <sup>(3)</sup>)

## Self-sufficiency in key feedstocks provides for low costs

- 100% self-sufficient in phosphate rock
- 72%-90% self-sufficient in ammonia<sup>(4)</sup>
- More than 40% self-sufficiency in electricity

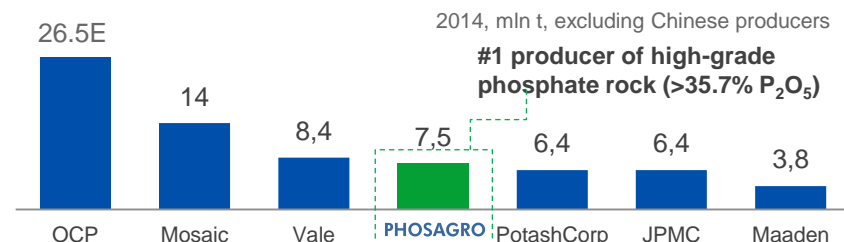
## Flexible production and sales

- Flexible production lines
- Phosphate fertilizer capacities of 5.1 mln t, 2.2 mln t fully flexible into NPK production
- Leader in Russian fertilizer market growing twice faster than the world consumption
- Net back driven sales model with a global presence

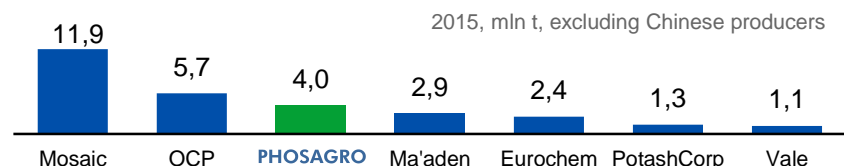
## Strong financial performance

- EBITDA of \$1353 mln in 2015
- Net profit \$598 mln in 2015
- Net debt/EBITDA as of end-2015: 1.3x

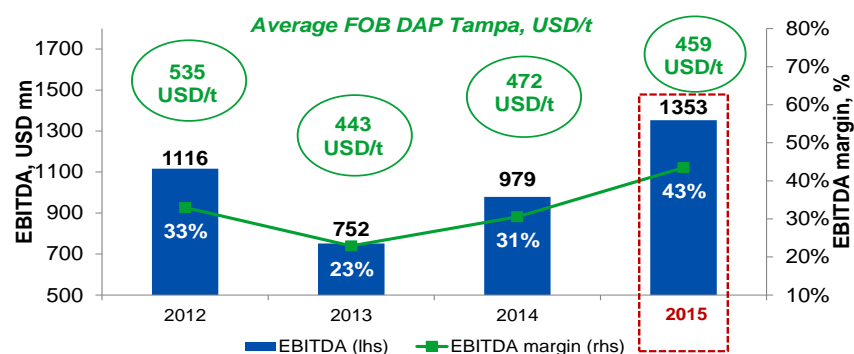
## Leading global phosphate rock producers (by production)



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



## EBITDA and EBITDA margin dynamic vs DAP price



Note: (1) Excluding Chinese producers

(2) PhosAgro, IMC as of June 2011

(3) Russian Academy of Science

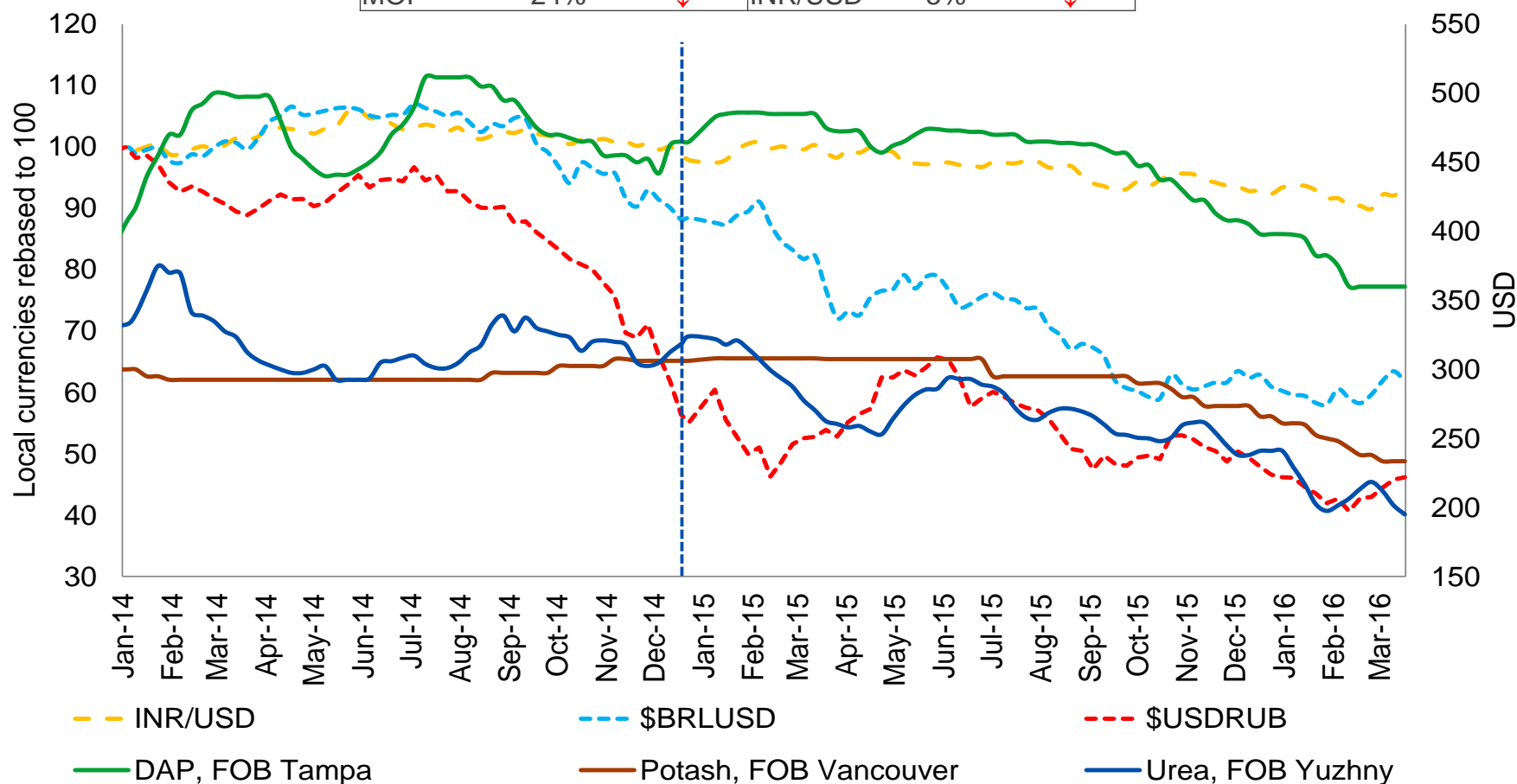
(4) self-sufficiency depends on the composition of the products produced by PhosAgro

Source: IFA, CRU, companies' data, PhosAgro

Source: Argus-FMB, CRU, IFA, companies' data, PhosAgro

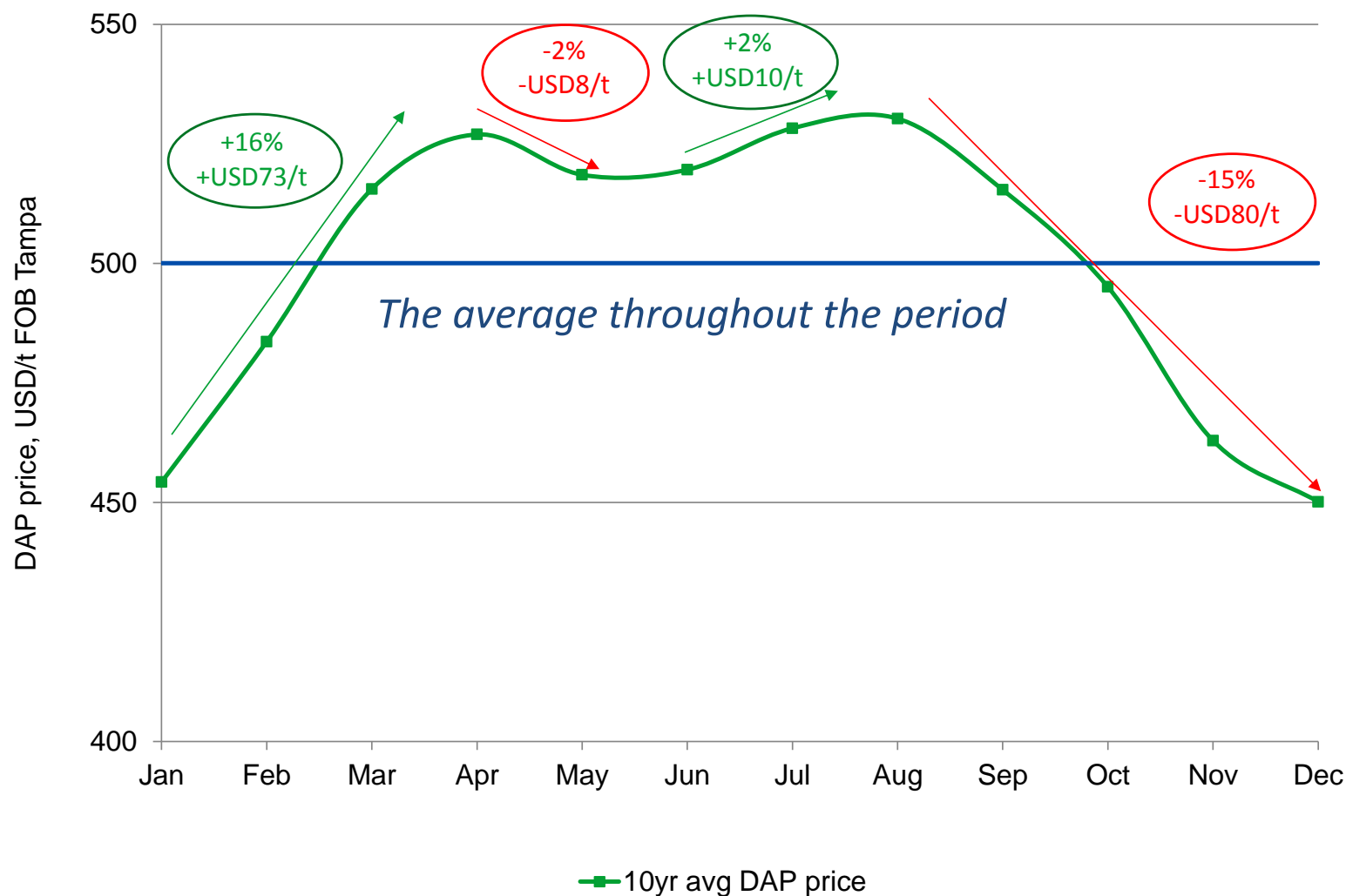
## Price dynamics since 1 January 2015

Commodity			Currency		
DAP	-23%	↓	RUB/USD	-16%	↓
Urea	-40%	↓	BRL/USD	-30%	↓
MOP	-24%	↓	INR/USD	-5%	↓



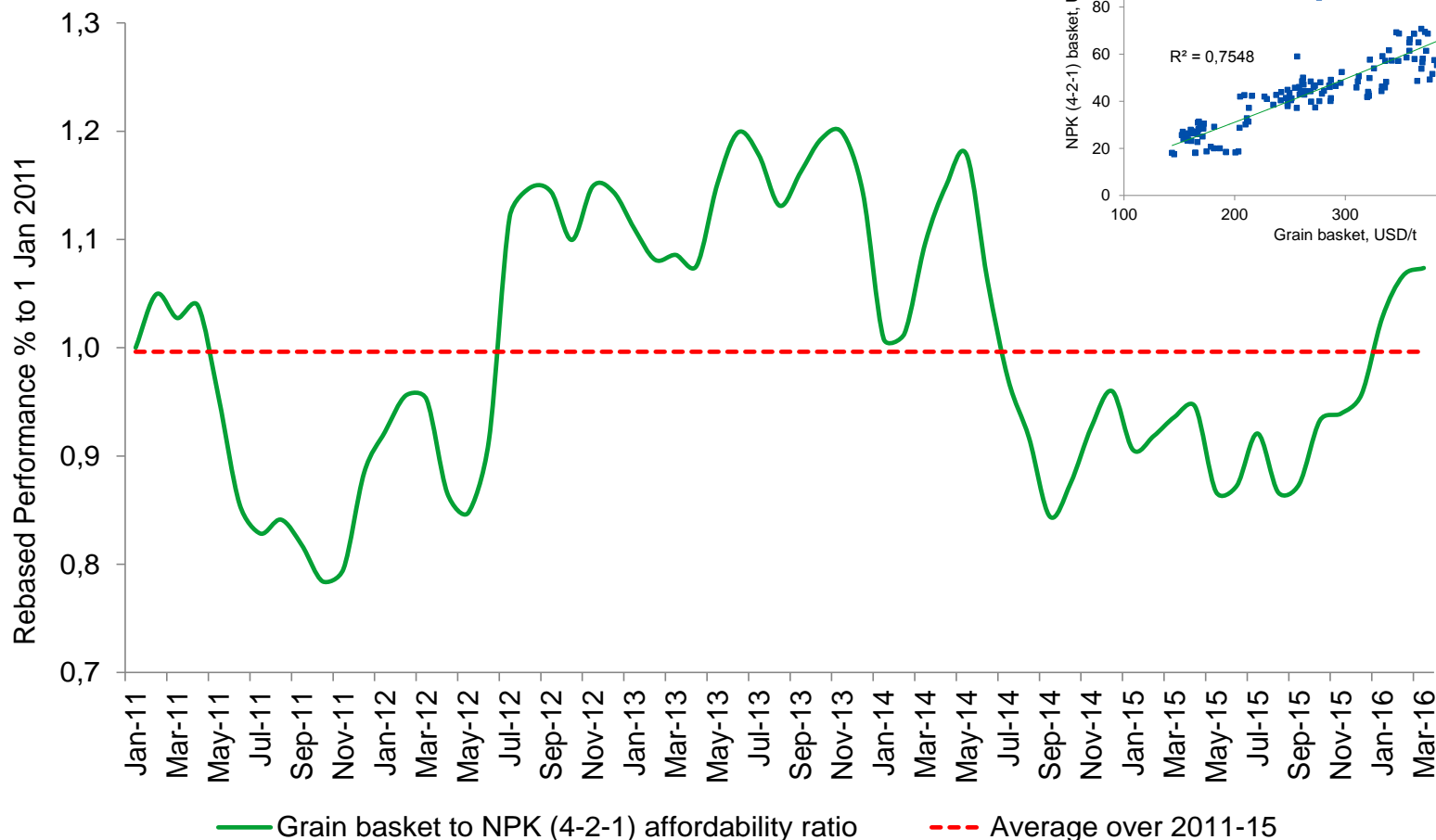
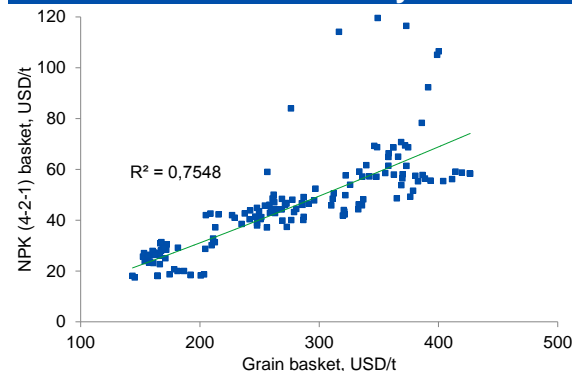


# Historical DAP price fluctuation throughout a year



# Fertilizers remain affordable for farmers despite low cycle in soft commodities

Strong correlation between cereals and fertilizers baskets over 10 years

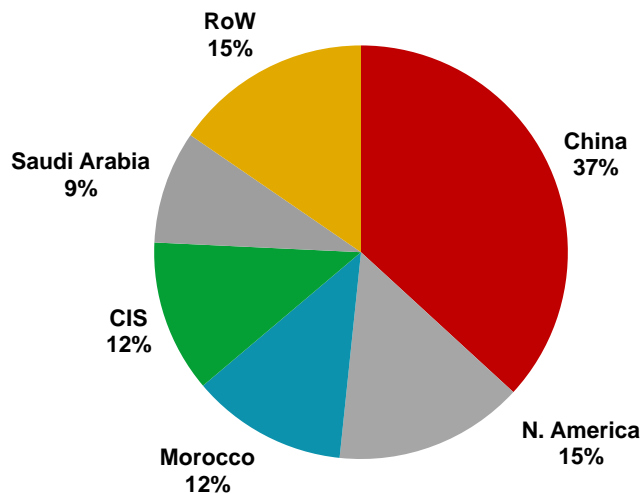


Source: Fertecon, Argus-FMB, FAO, USDA, IFA, S&P Capital IQ

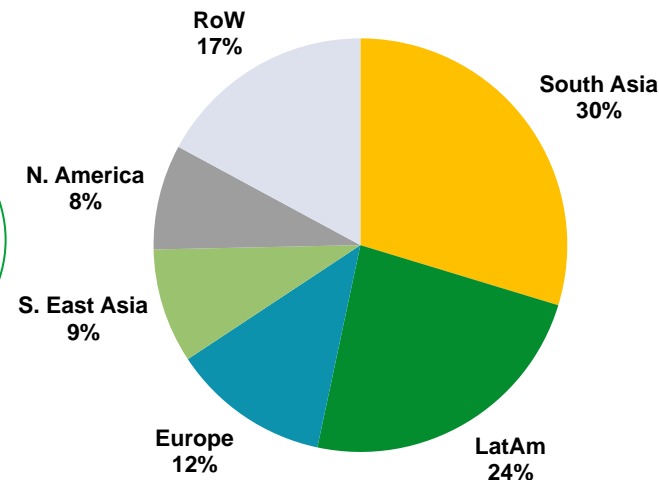
Note: (1) agricultural commodity prices are represented by a grain index calculated as follows: (wheat price\*7+ corn price \*8 rice price\*4.5+soybeans price\*2.5)/22

Prices are as of 20 March 2016

## Chinese export potential... (Export market breakdown)



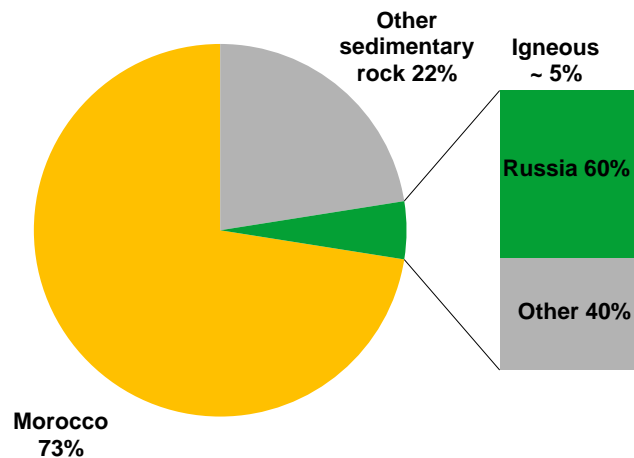
## Demand in Latam and India... (Import market breakdown)



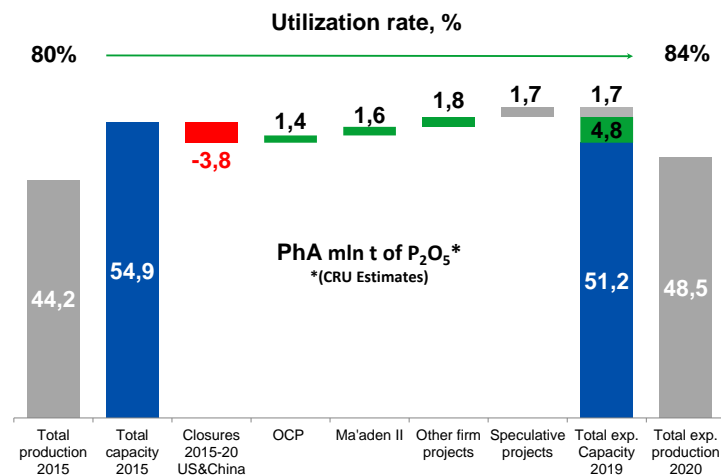
Global Trade  
(DAP, MAP, TSP)  
13,2 mn t\* P<sub>2</sub>O<sub>5</sub>  
in 2015

\* - CRU Estimates

## Moroccan OCP feedstocks pricing (P<sub>2</sub>O<sub>5</sub> Resource allocation)

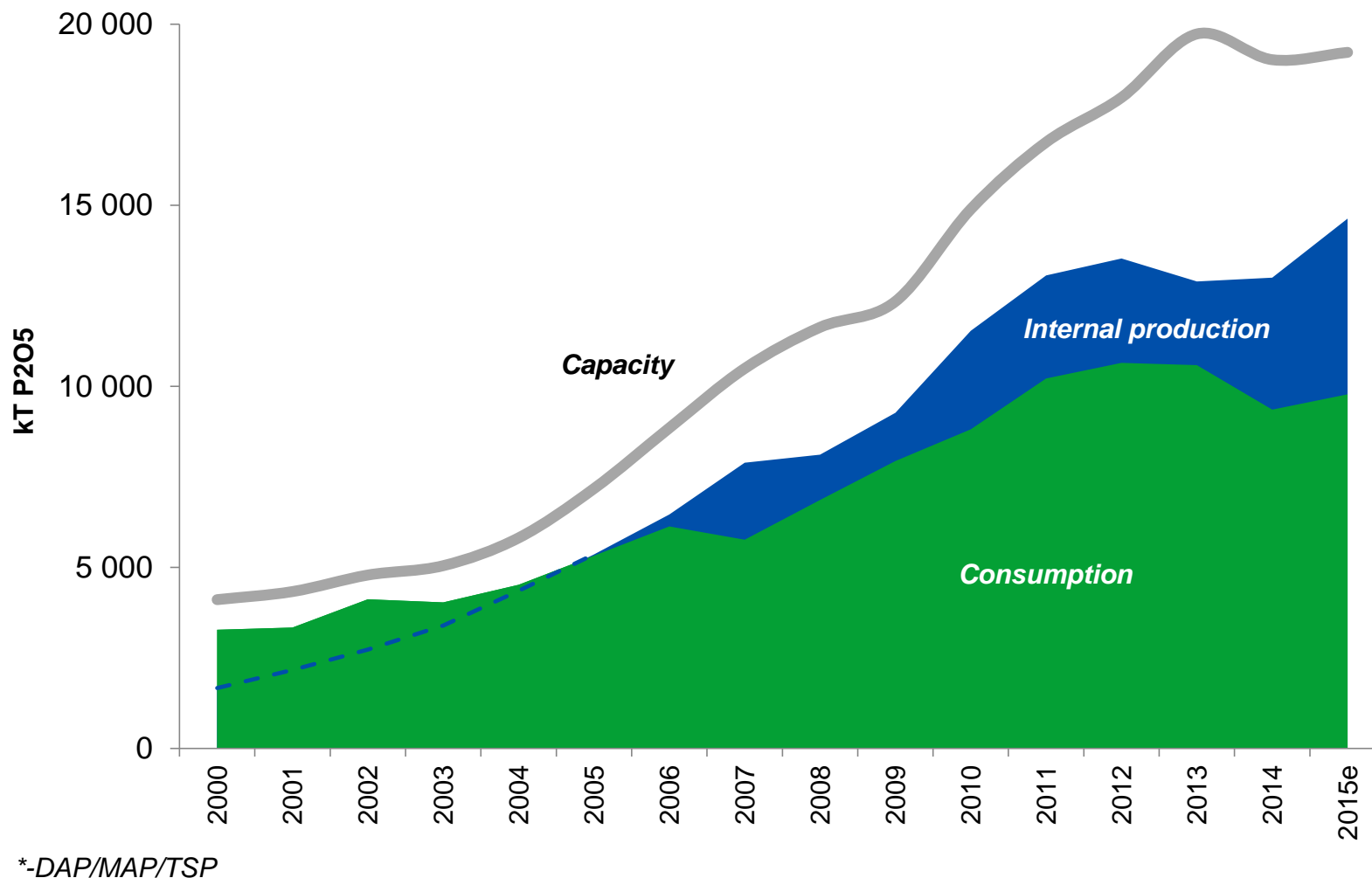


## New projects pipeline.





# Phosphate fertilizers production/consumption balance in China



**Tainted rice was discovered in several Chinese provinces**

СИНЬЦЗЯН-УЙГУРСКИЙ  
АВТОНОМНЫЙ РАЙОН

**Polluted**

**Arsenic rice (As)**

**Cadmium rice (Cd)**

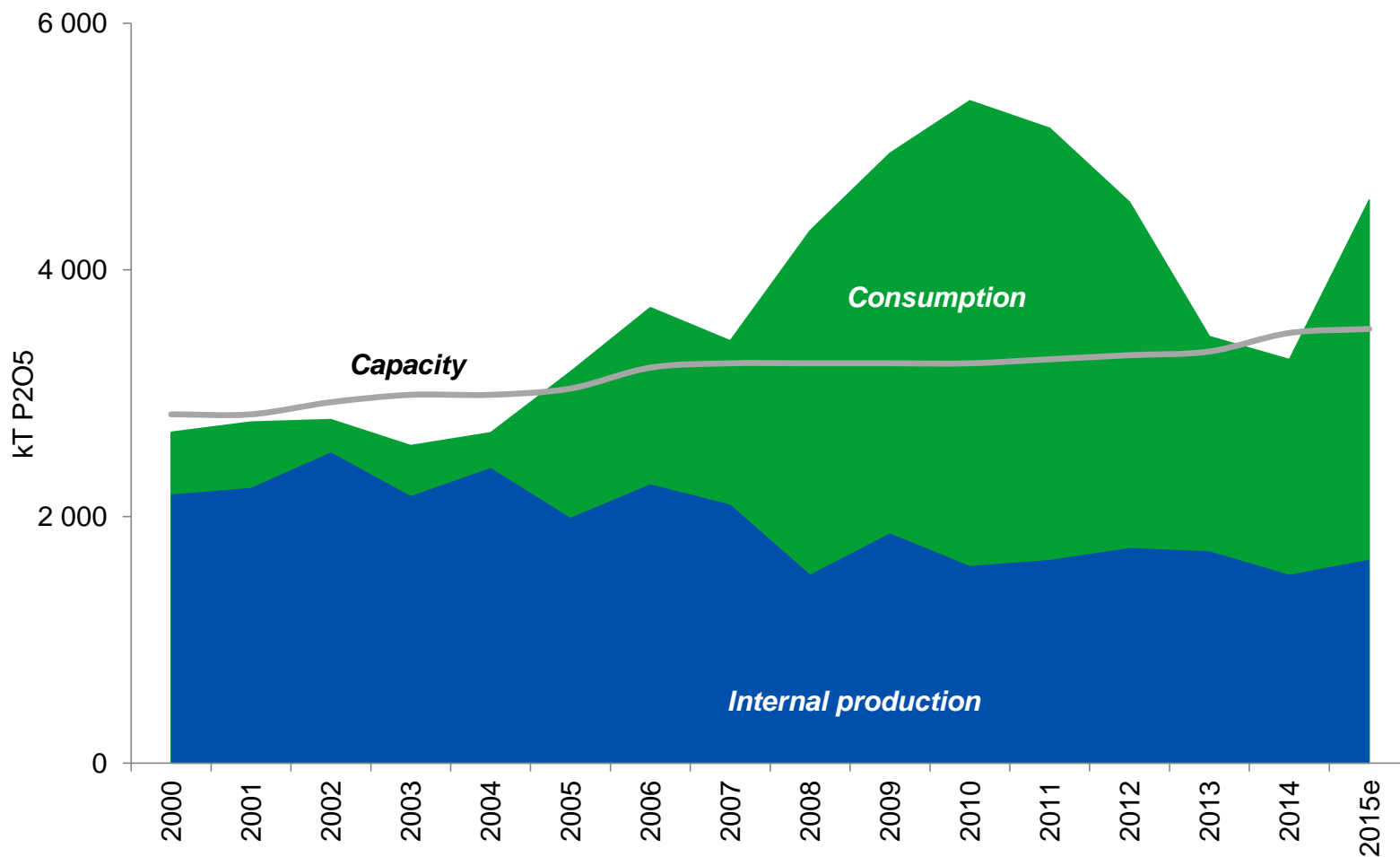
**Lead rice (Pb)**

**Lead rice  
(Pb)**

	Rock mln T	PA kT P <sub>2</sub> O <sub>5</sub>	DAP kT P <sub>2</sub> O <sub>5</sub>	MAP kT P <sub>2</sub> O <sub>5</sub>	Ammonia kT
YTH	13.0	3 040	2 220	470	700
Wengfu	6.0	1 950	1 240	460	-
Kailin	6.0	1 320	1 250	300	600
Yihua	N.D	850	750	100	3 000
4Big	-	6 710	5 460	1 330	4 300
China	86.2	19 800	10 048	8 036	81 300



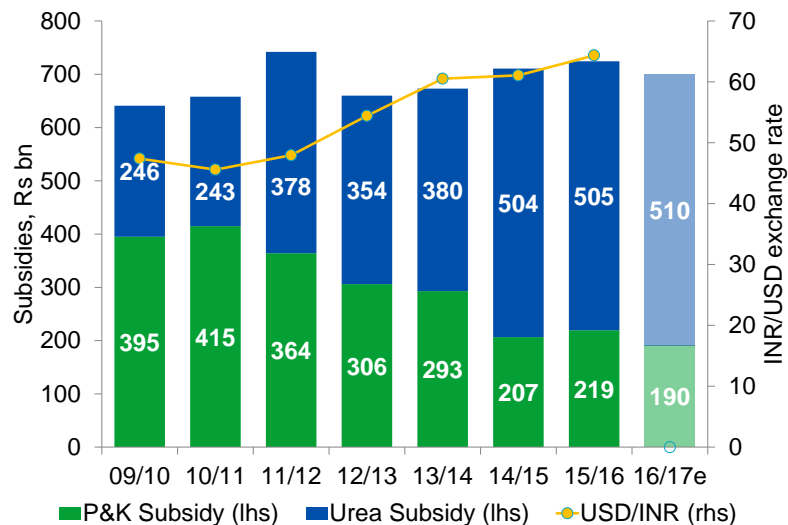
# Phosphate fertilizers production/consumption balance in India



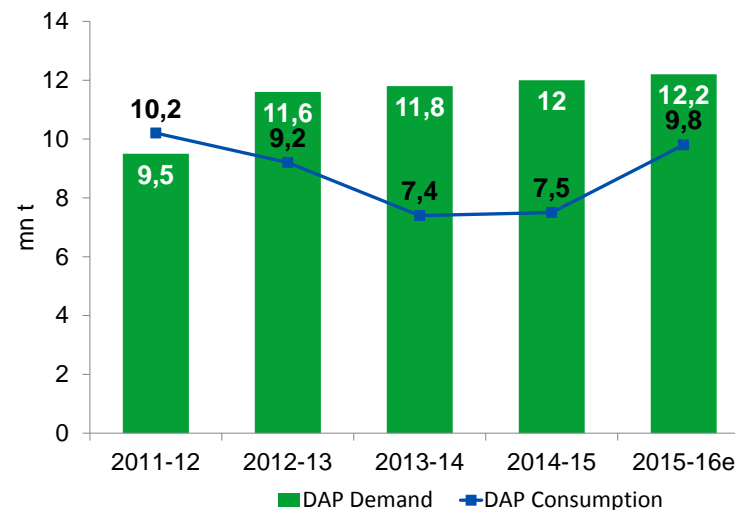
\*-DAP/MAP/TSP

# India's subsidy policy: favouring urea leads to unbalanced fertilization

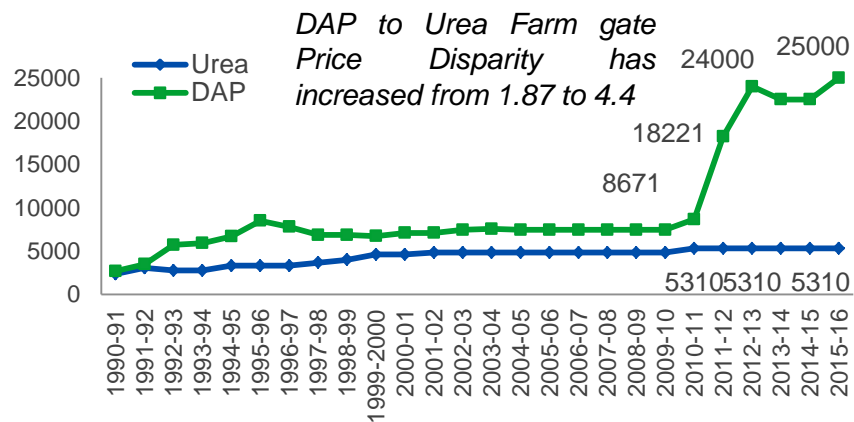
India introduced a new subsidy system in 2010



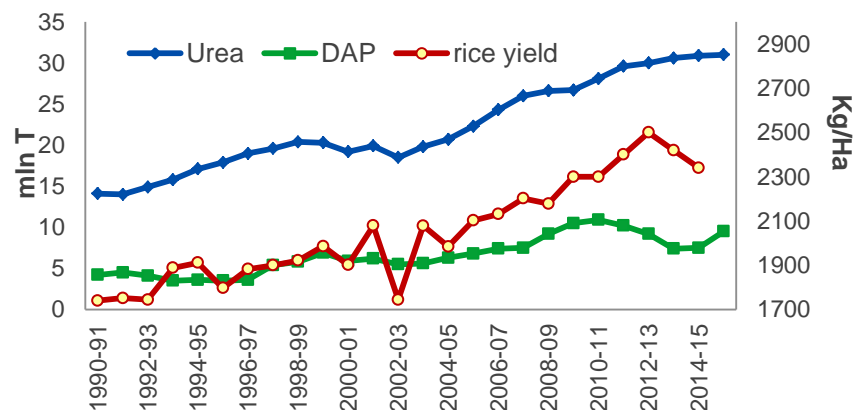
DAP demand and consumption in India (CRU est. for 2015-16)



Price Disparity, Rs/mT

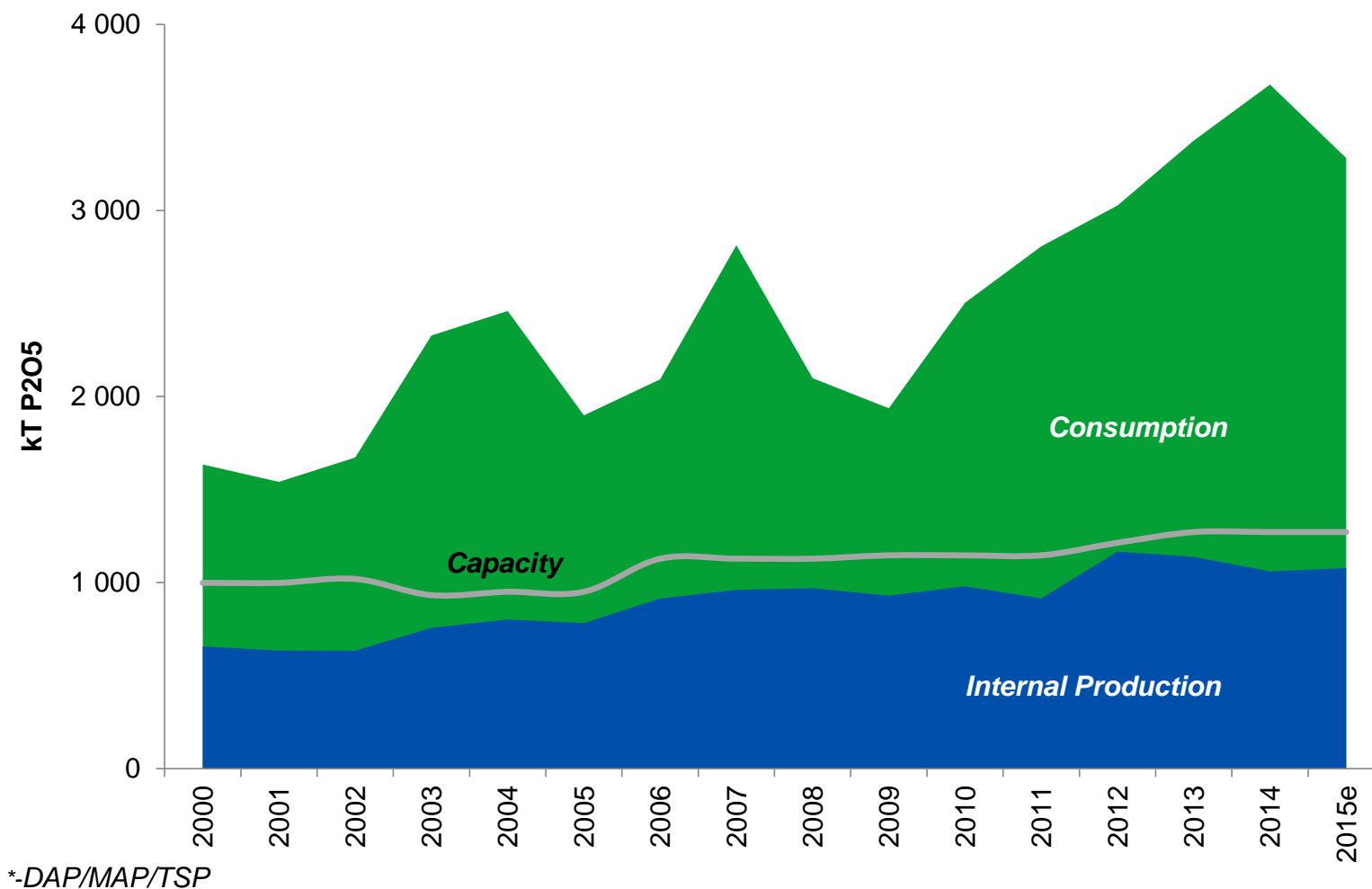


Consumption Disparity and Rice yield dynamic, mln t



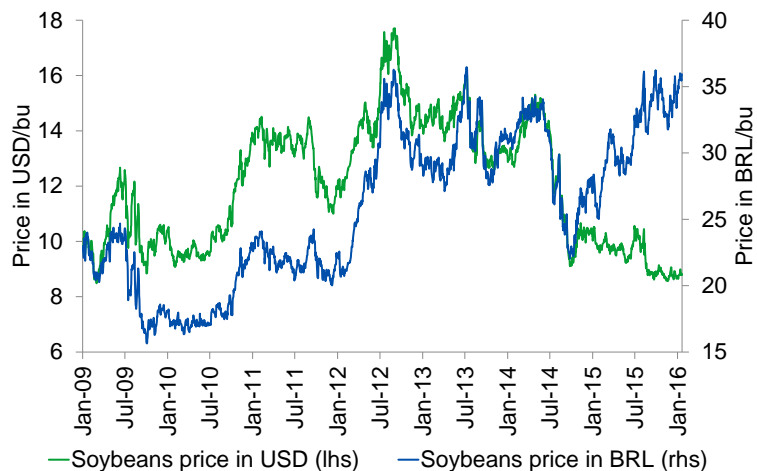


## Phosphate fertilizers production/consumption balance in Brazil

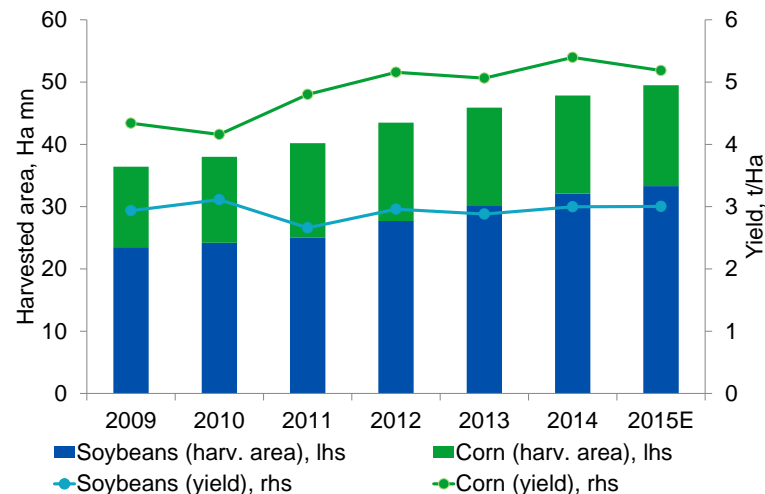


# Brazil is a top ag exporter among developing countries

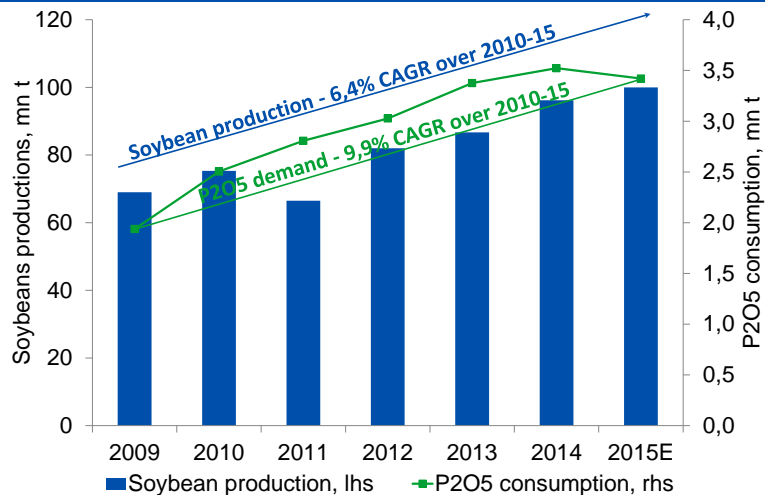
## Soybean price at record highs in BRL



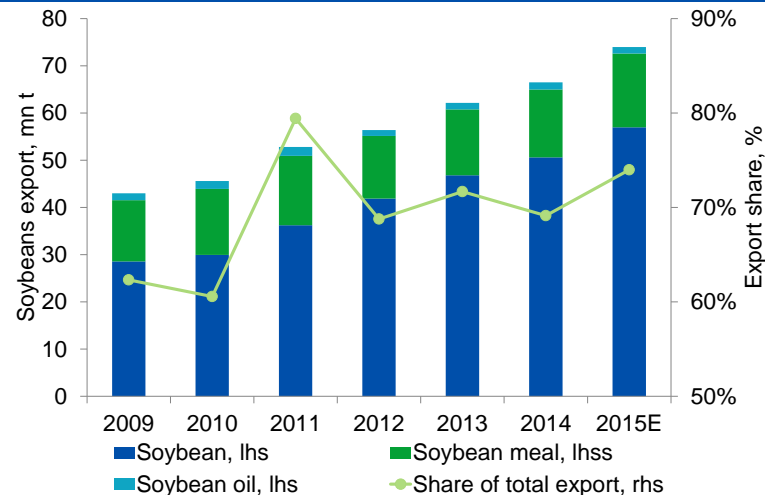
## Soybeans drive ag production in Brazil



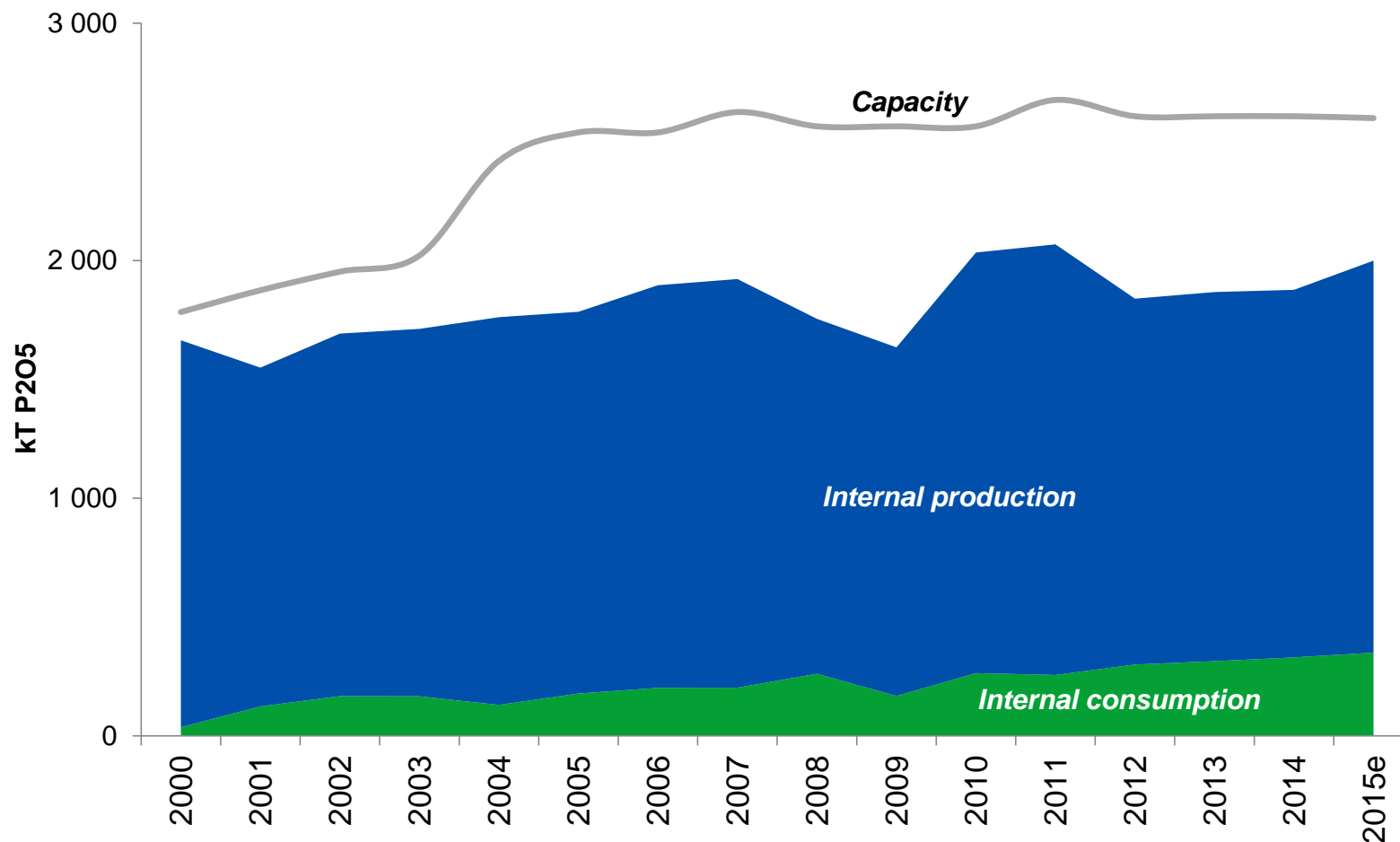
## Brazil soybean production and P2O5 consumption



## Major part of soybeans goes to export

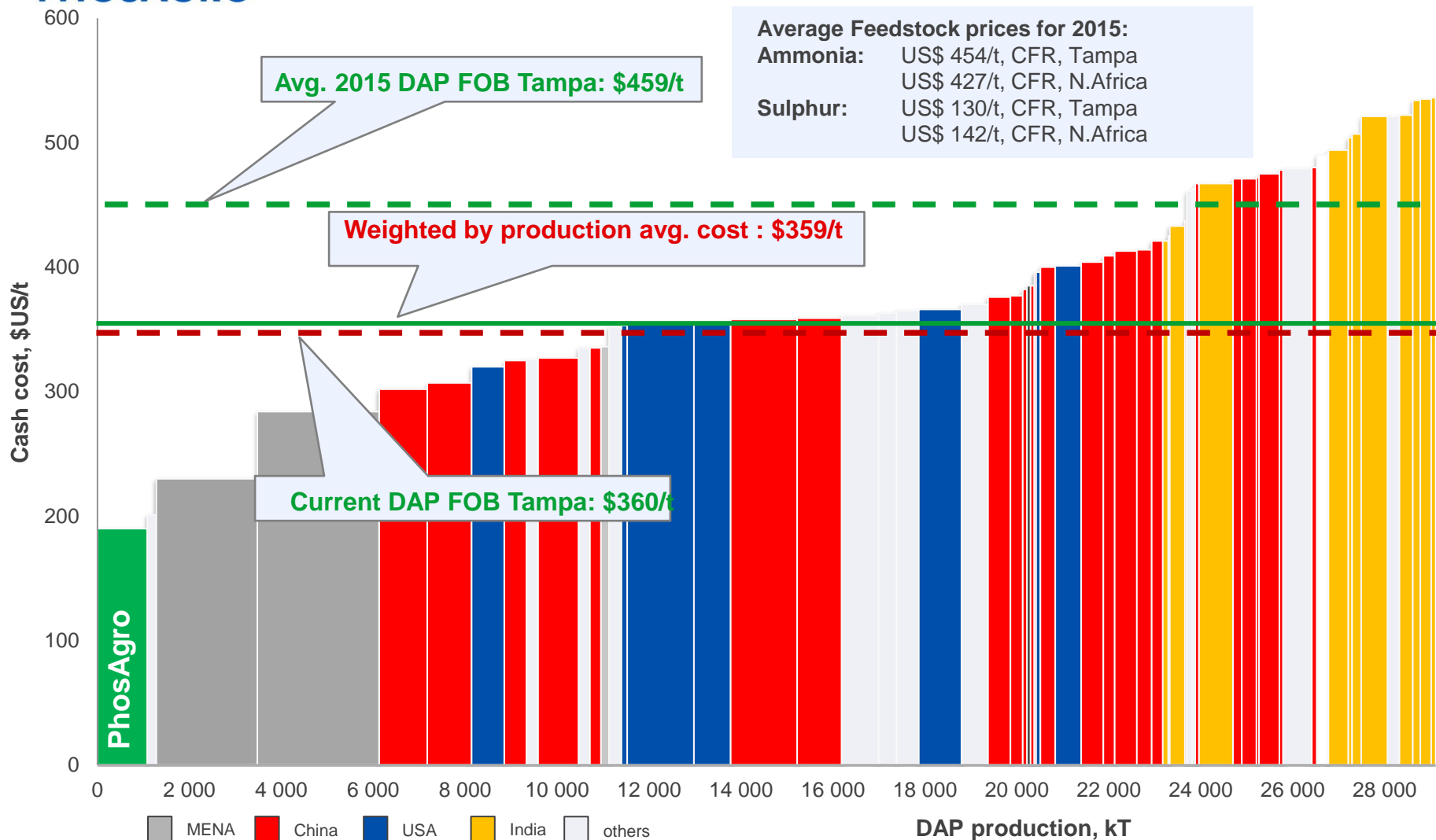


# Phosphate fertilizers production/consumption balance in Russia



\*-DAP/MAP/TSP

# Avg. DAP business cash cost actual operating rates in 2015 \$US/t FOB<sup>(1)</sup> Morocco



Source: PhosAgro estimation, CRU estimation for 2015, Argus-FMB, Fertecon

Note: (1) DAP business cash cost actual operating rate are based on feedstock prices in 2015, on site's specific location relative to FOB Morocco and its product nutrient content relative to DAP  
 USD/RUB exchange rate of RUB 60.96 applied for Russian producers

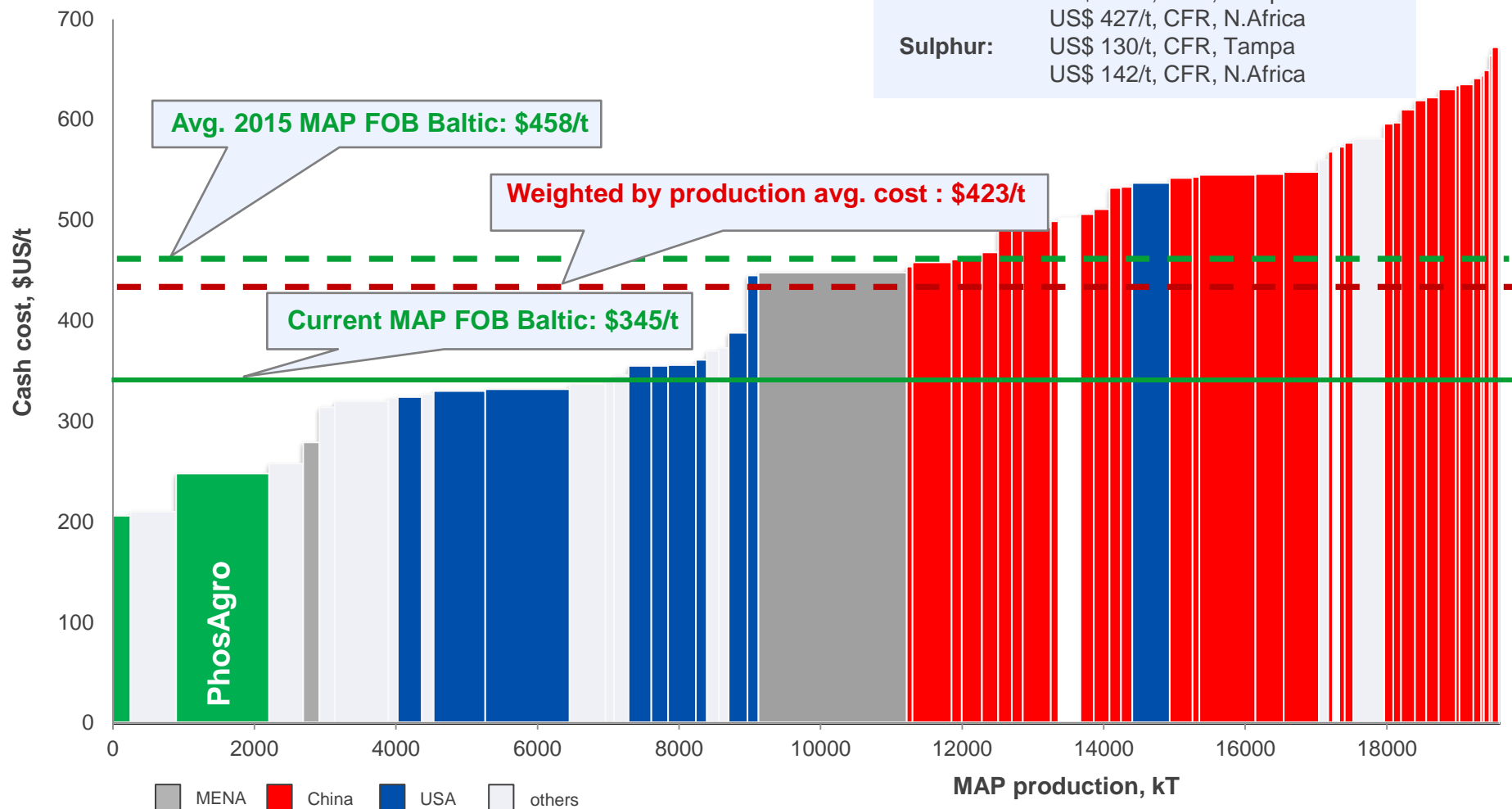


# Avg. MAP business cash cost actual operating rates in 2015 \$US/t FOB<sup>(1)</sup> Morocco

## Average Feedstock prices for 2015:

**Ammonia:** US\$ 454/t, CFR, Tampa  
US\$ 427/t, CFR, N.Africa

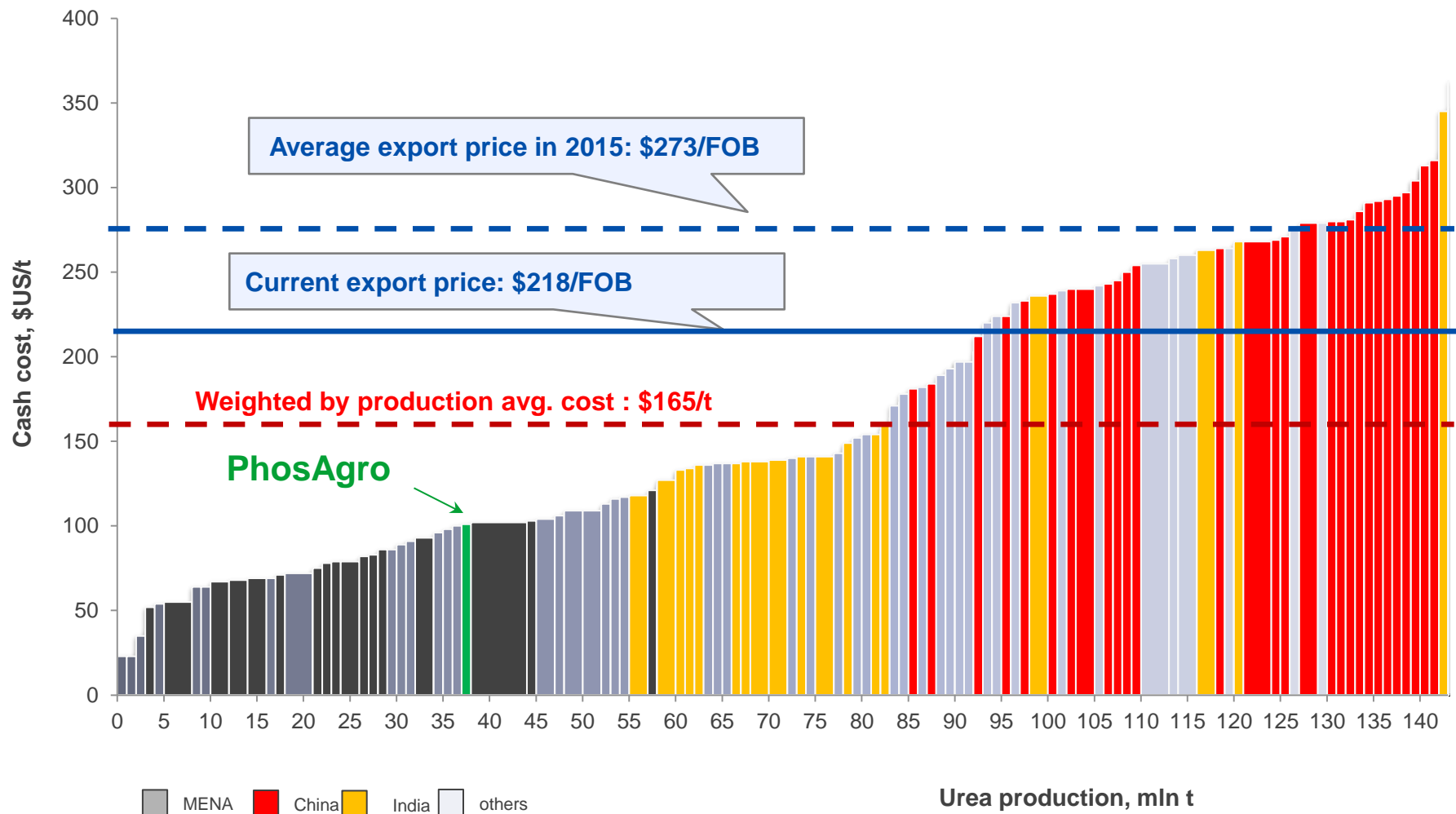
**Sulphur:** US\$ 130/t, CFR, Tampa  
US\$ 142/t, CFR, N.Africa



Source: PhosAgro estimation, CRU estimation for 2015, Argus-FMB, Fertecon

Note: (1) MAP business cash cost actual operating rate are based on feedstock prices in 2015, on site's specific location relative to FOB Morocco and its product nutrient content relative to MAP  
USD/RUB exchange rate of RUB 60.96 applied for Russian producers

# Urea business cash cost capacity operating rate in 2015 \$US/t FOB<sup>(1)</sup> Yuzhny



Source: PhosAgro estimates, CRU, Fertecon, IFA, Argus-FMB

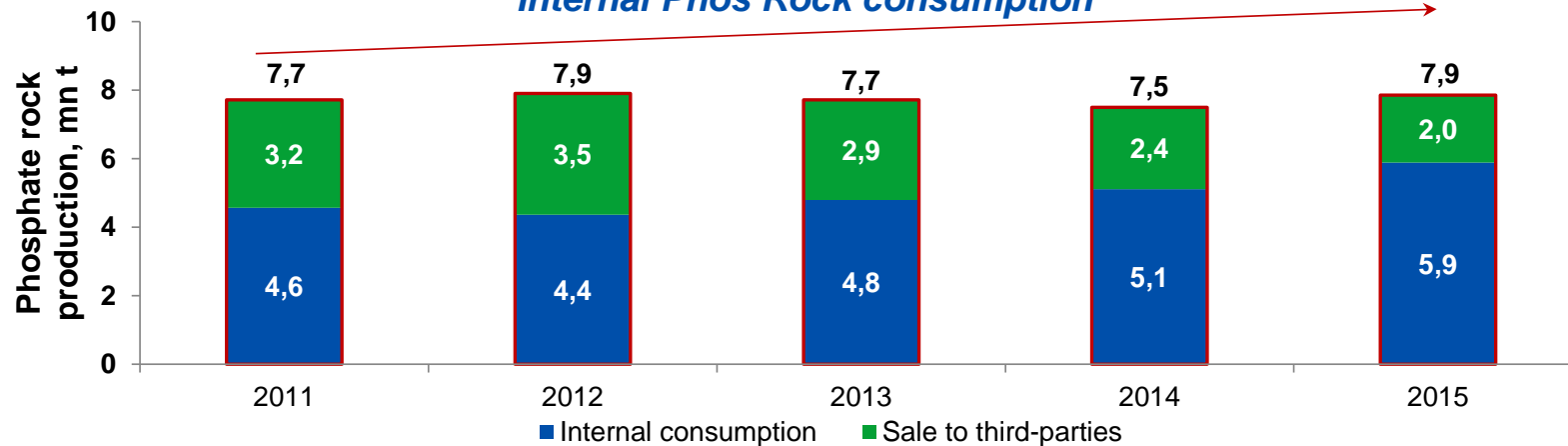
Note: (1) Urea cash cost estimates are based on feedstock prices in 2015

USD/RUB exchange rate of RUB 60,96 applied for calculation urea export cash cost

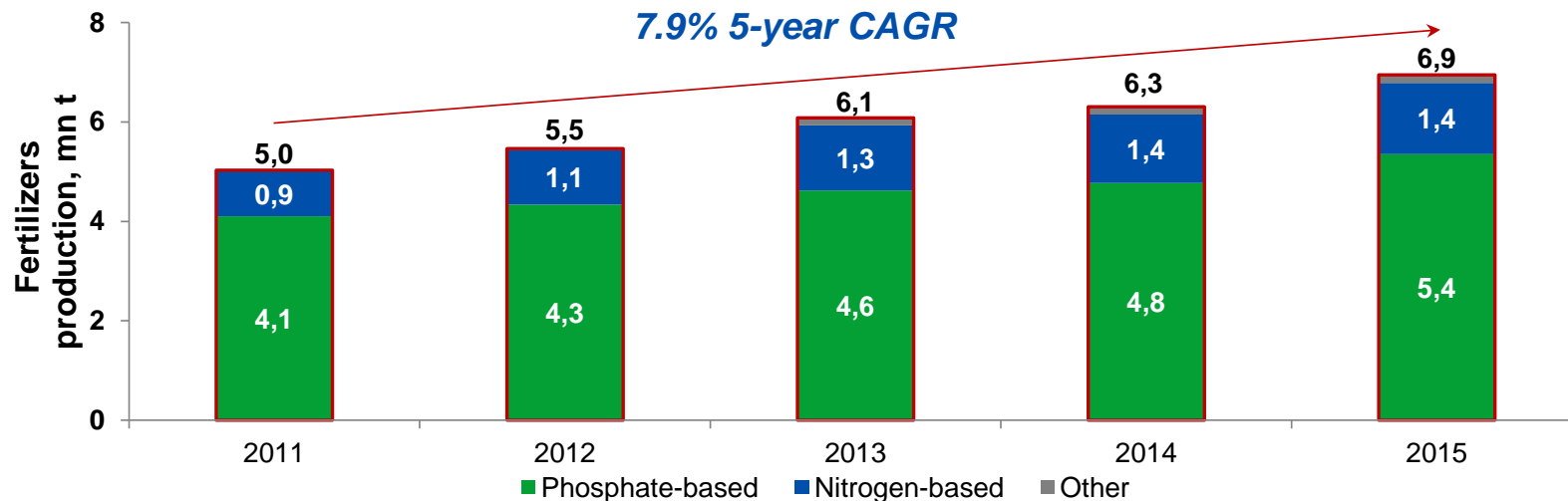


*PhosAgro -  
Growing production profile &  
return for shareholders*

**6.6% 5-year CAGR**  
*Internal Phos Rock consumption*



**7.9% 5-year CAGR**



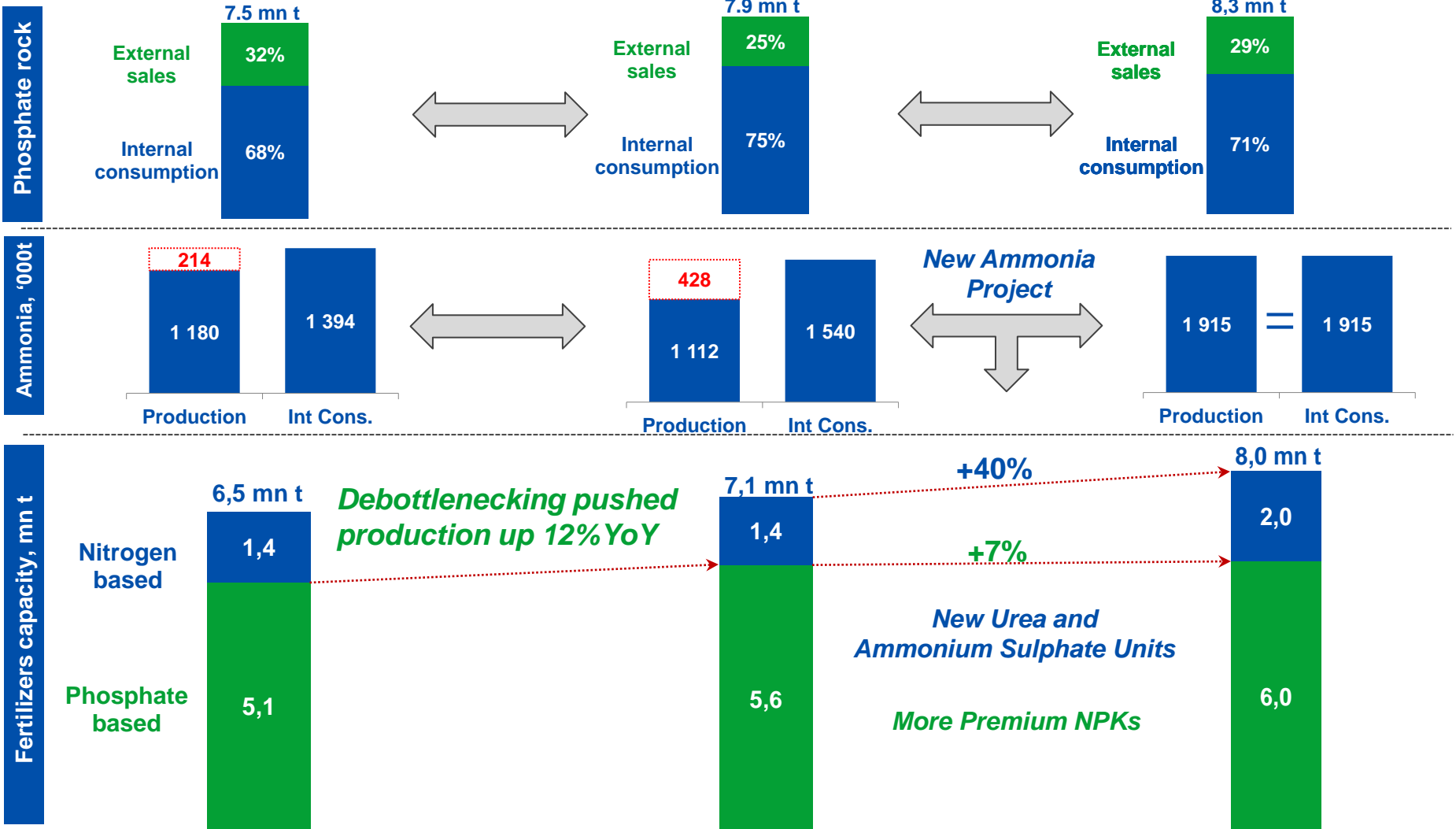


# Strategy for fertilizer volume growth

Where we have been in 2014

Where we are NOW

Where we are headed after 2017

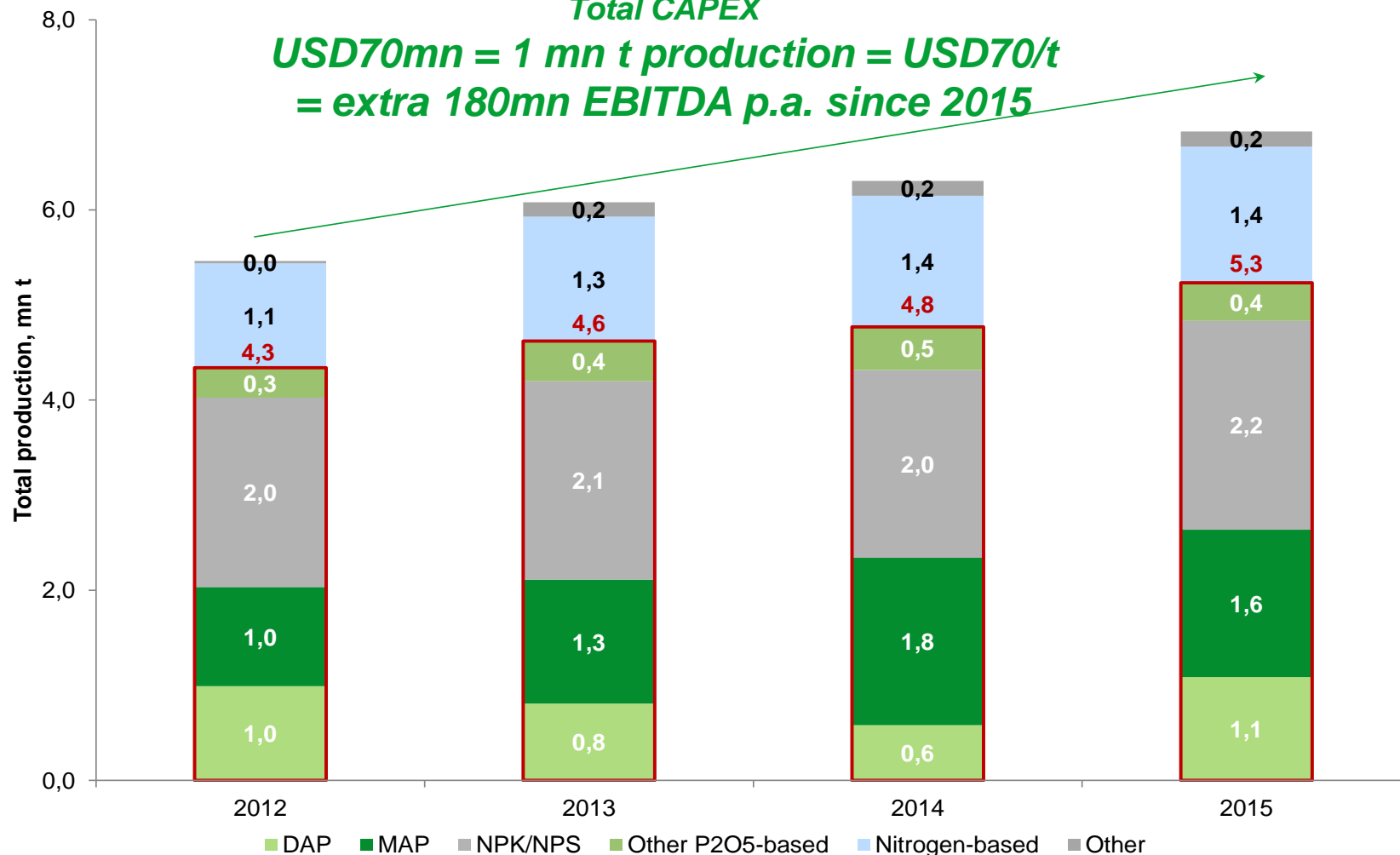


# Strategy for fertilizer volume growth

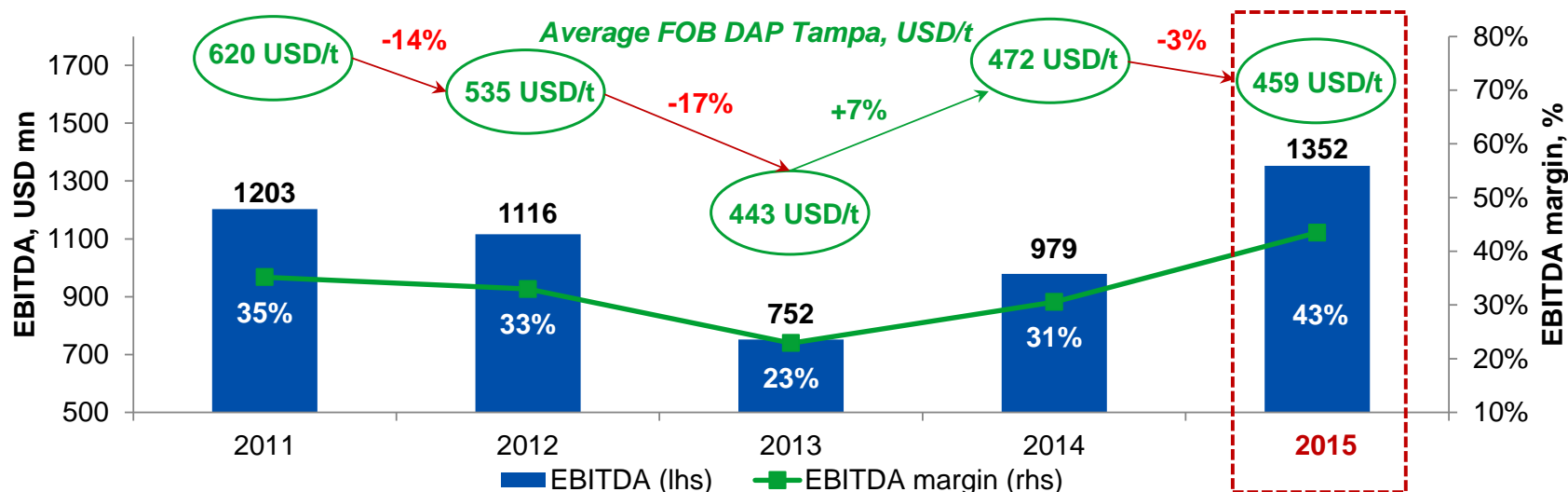
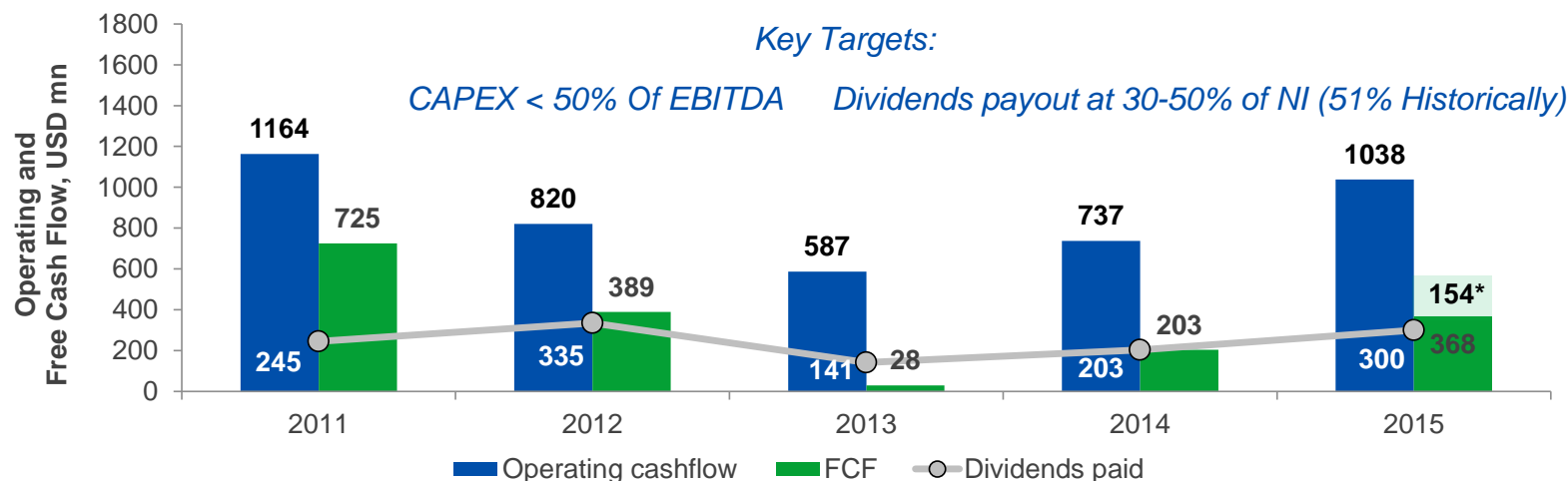
*Production of P2O5-based Fertilizers up 23% or 1mn t since 2012 thanks to modernization and debottlenecking*

*Total CAPEX*

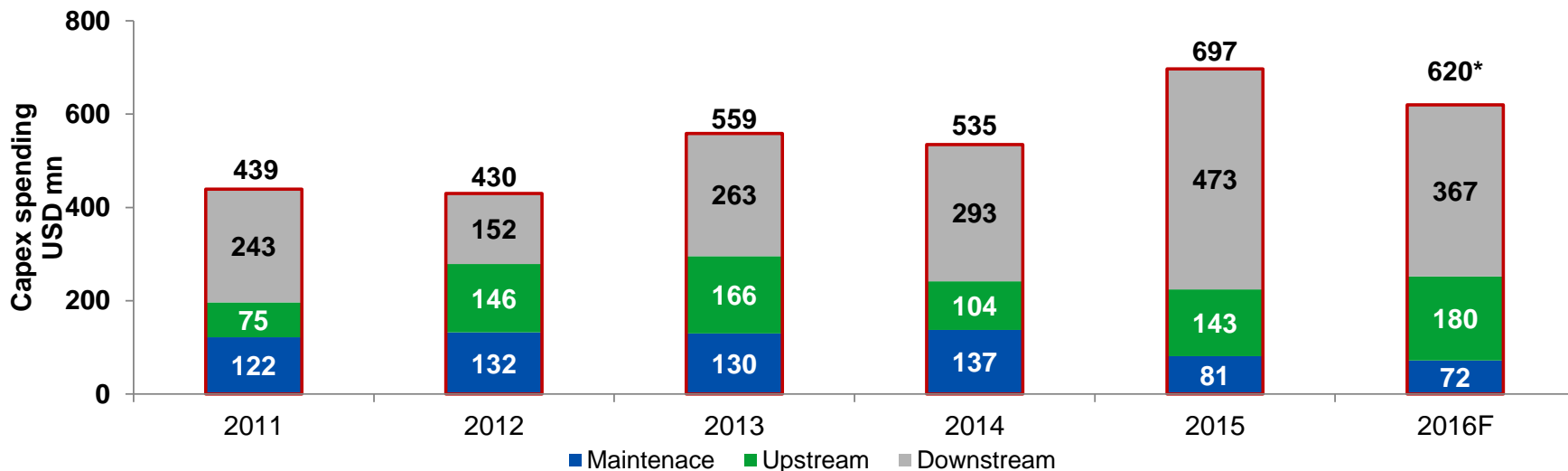
*USD70mn = 1 mn t production = USD70/t  
= extra 180mn EBITDA p.a. since 2015*



# Growing return for shareholders

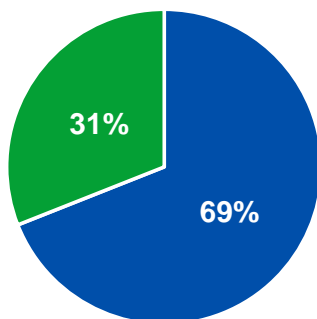


# Capex dynamics over 2011-16



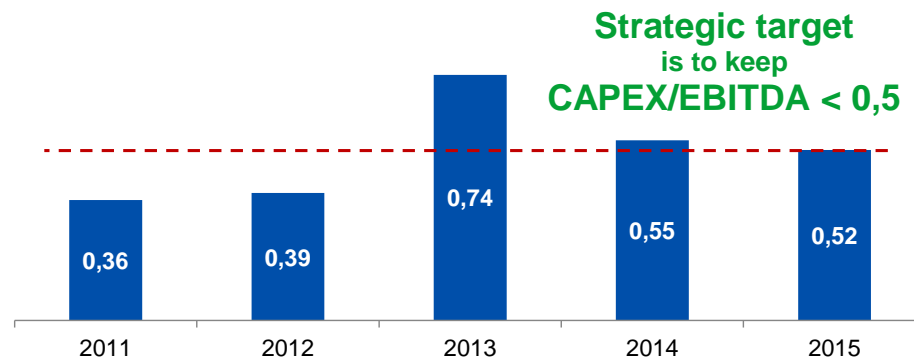
\* Based on forecasted RUB67,5/USD exchange rate for 2016

## CAPEX 2016 Currency breakdown



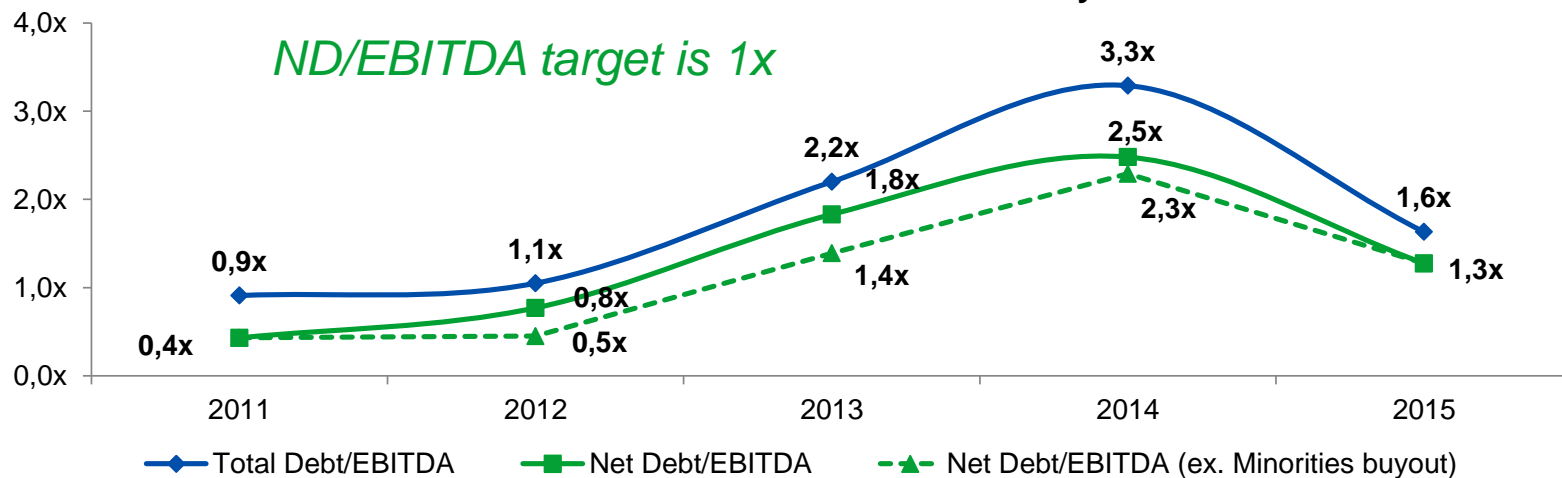
■ CAPEX in RUB ■ CAPEX in foreign currency

## CAPEX/EBITDA ratio

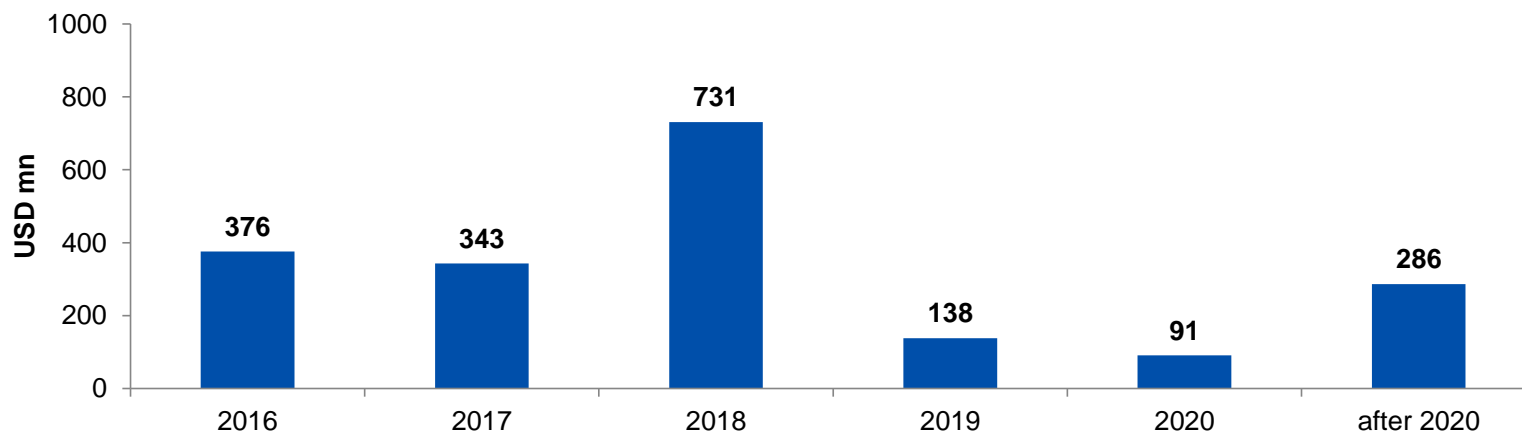




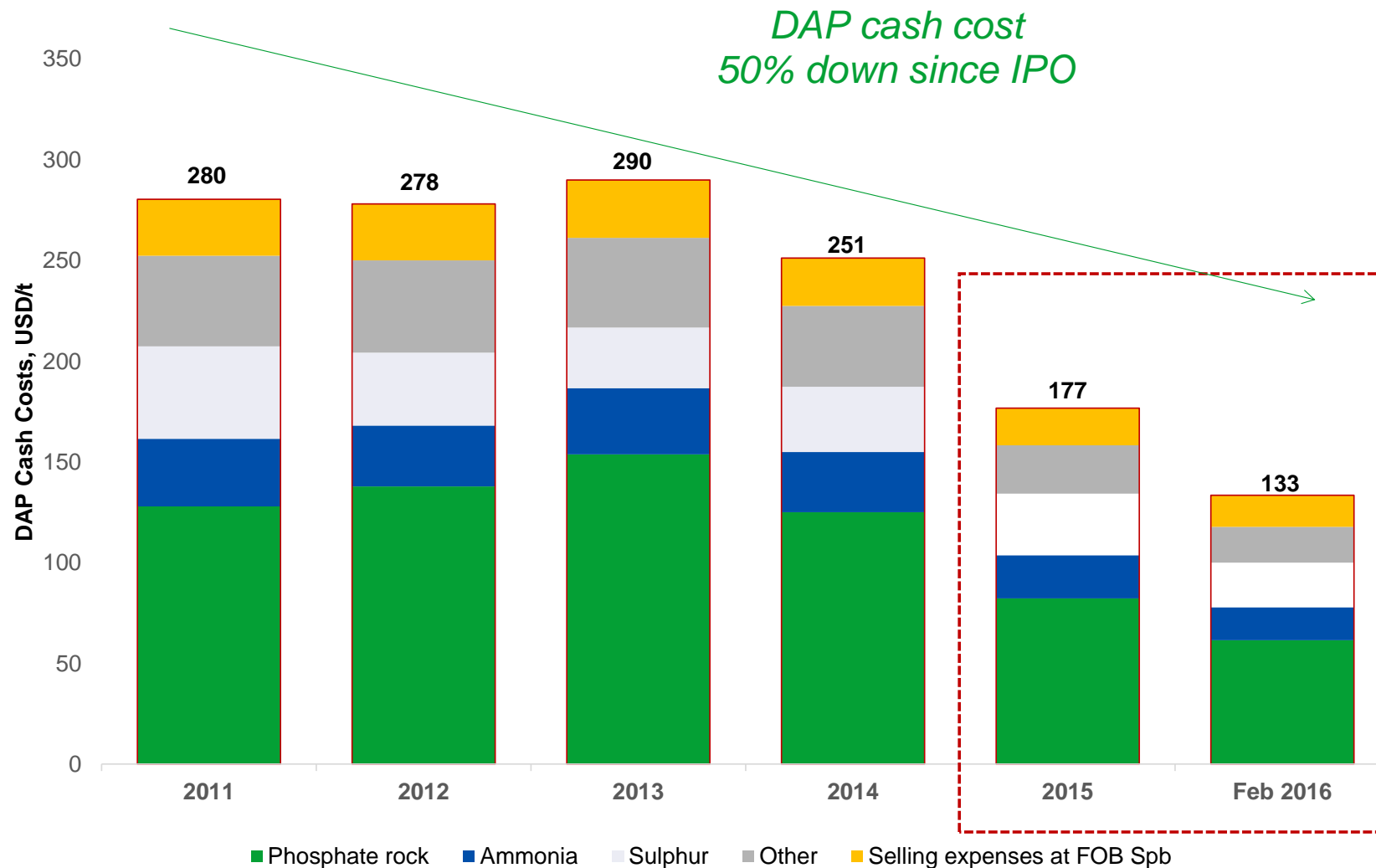
**Total Debt and Net Debt/ EBITDA dynamics**



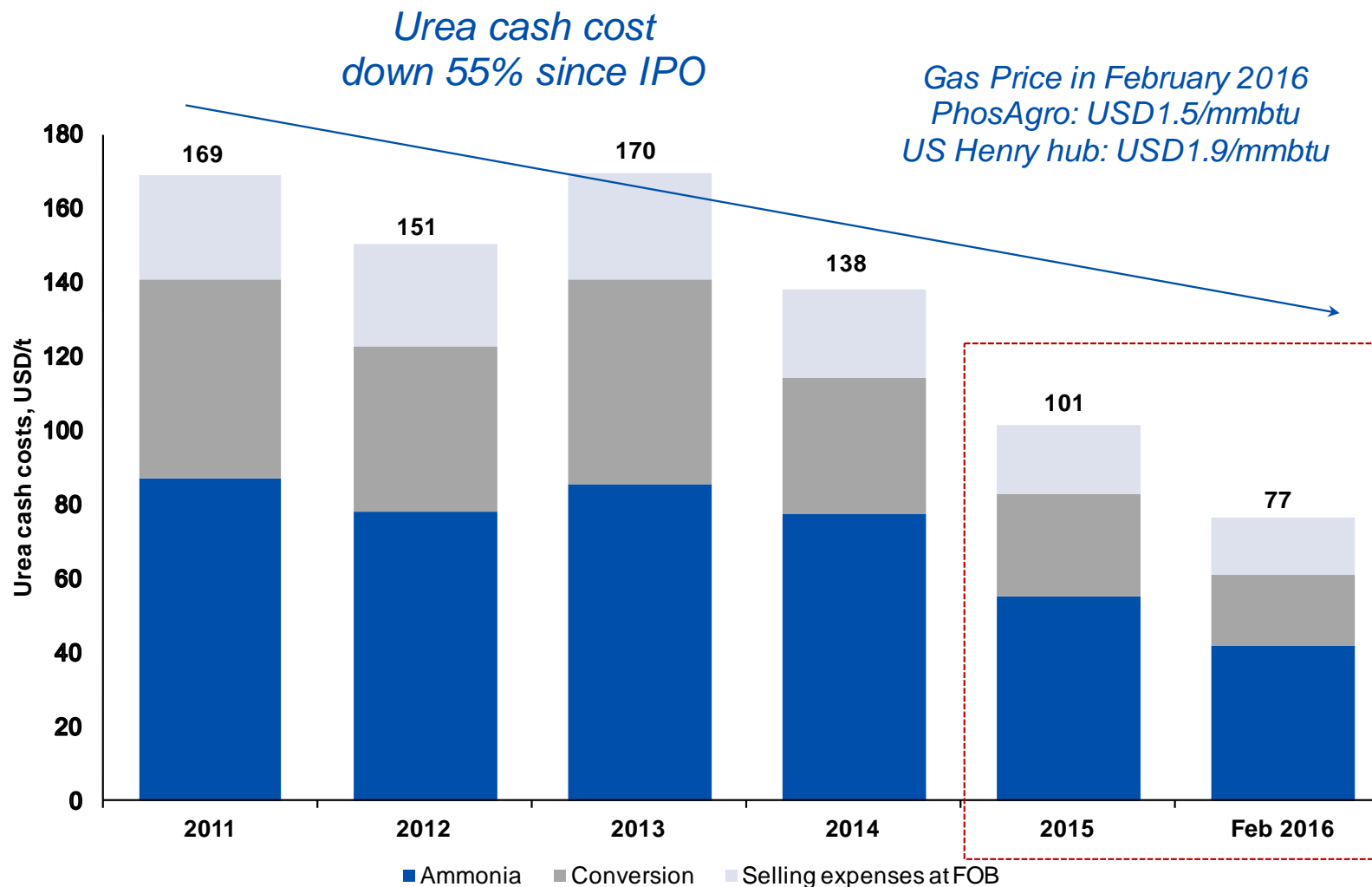
**Repayment of principle**



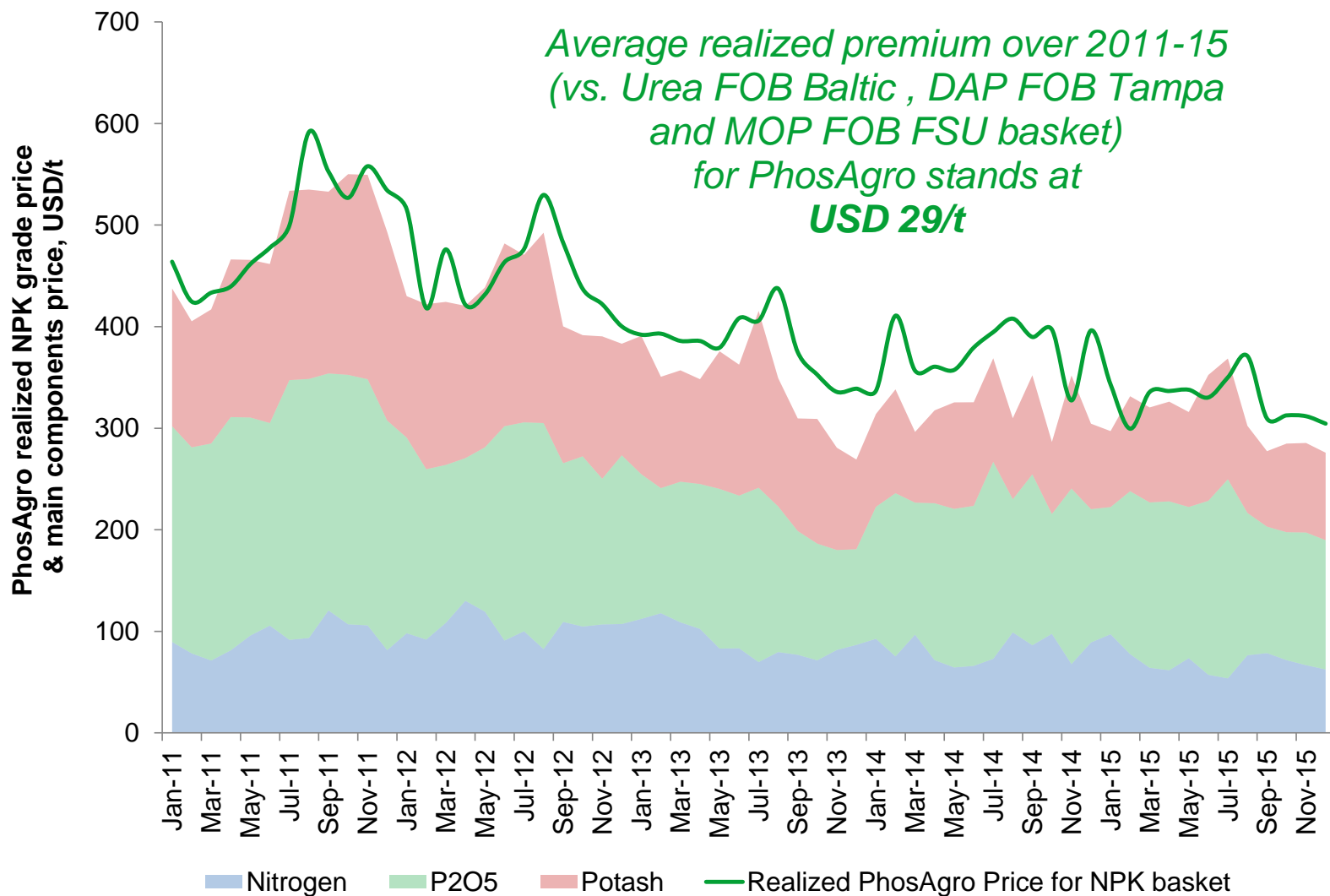
# PhosAgro: DAP Cash Cost Dynamics over 2011-16



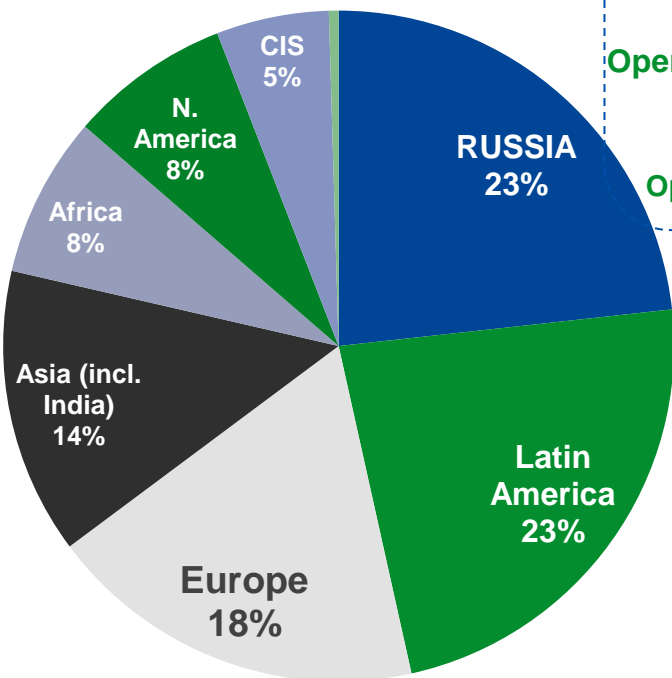
# PhosAgro: Urea Cash Cost Dynamics over 2011-16



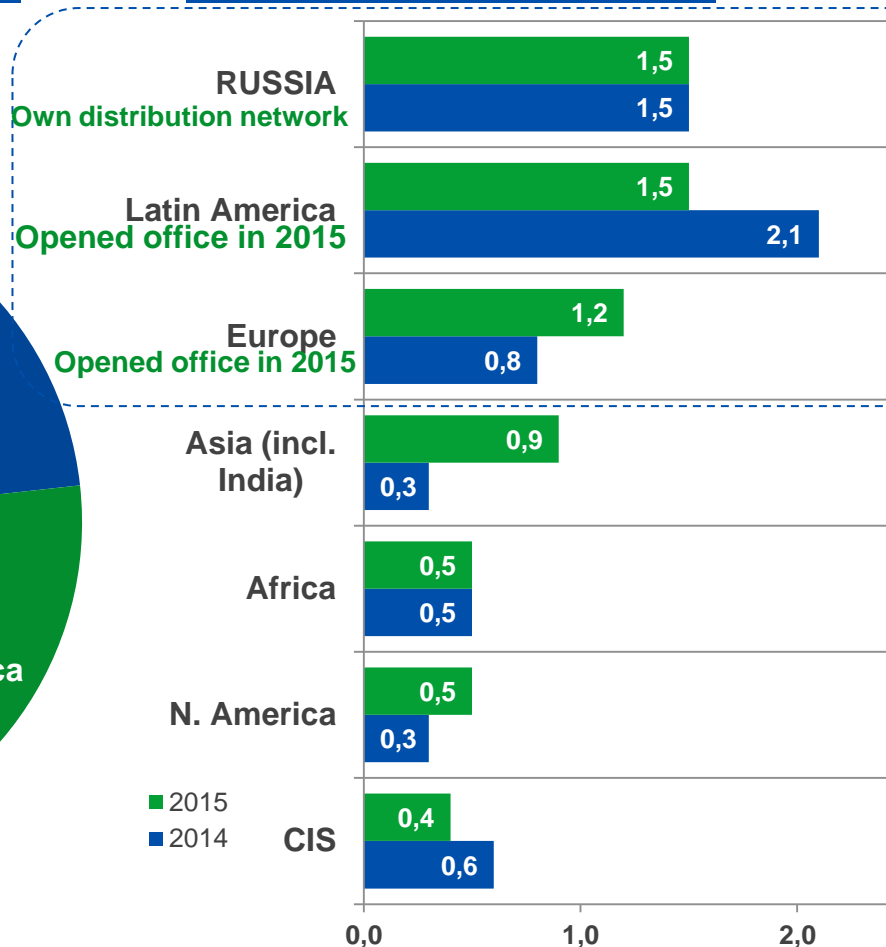
# PhosAgro: Focus on NPK production secures extra margins



## Breakdown of fertilizer shipments by region, 2015



## Fertilizer Deliveries in 2014-2015, mln.tonnes



## PhosAgro Market Share<sup>1</sup>

Region	MAP/DAP	NPK
RUSSIA	63%	57%
Latin America	15%	25%
Europe	12%	6%
Asia (incl. India)	<1%	2%
Africa	6%	n.d
N. America	12%	n.d
CIS	58%	23%

63%

57%

15%

25%

12%

6%

<1%

2%

6%

n.d

12%

n.d

58%

23%

Source: PhosAgro estimates, CRU, IFA, GTIS

1) Market share for 2014 in the total import (excluding Russian) market



# Priorities: trade restrictions vs. health

**Cadmium restrictions**

**Apatit**

**2.05**

billion tonnes of  
apatite-nepheline ore

Urals

EUROPEAN CONTINENT

**Heavy metal content, mg/kg  $P_2O_5$**

European  
countries grouped  
by allowable  
cadmium level

Maximum limits of cadmium  
in national fertilizers  
containing more than 5%  
 $P_2O_5$ , mg/kg  $P_2O_5$

**Strict limits**

**20**

**Medium limits**

**~55**

**Mild limits**

**90**

Phosphate  
rock

Cd

As

Pb

Russia (Kola)

0.05-0.09

0.2-0.3

0.6-0.8

South Africa

0.2

6

35

USA

11

12

12

Middle East

9

6

4

Morocco

30

11

7

Other N.Africa

60

15

6



# Appendix





## Apatit



### Resources<sup>(1)</sup>

Apatite-nepheline ore: 2,050 mt  
 $Al_2O_3$ : 283 mn t  
 REO<sup>(2)</sup>: 7.5 mn t

### Capacity by product

Phosphate rock: 7.5 mn t  
 Nepheline: 1.7 mn t

### Highlights

- Largest standalone global producer of high grade phosphate rock<sup>(3)</sup>
- Standard grade –  $P_2O_5$  content of 39%
- Lowest hazardous element content among the major phosphate rock producing regions; benefits from low levels of radioactivity

## Balakovo branch of Apatit

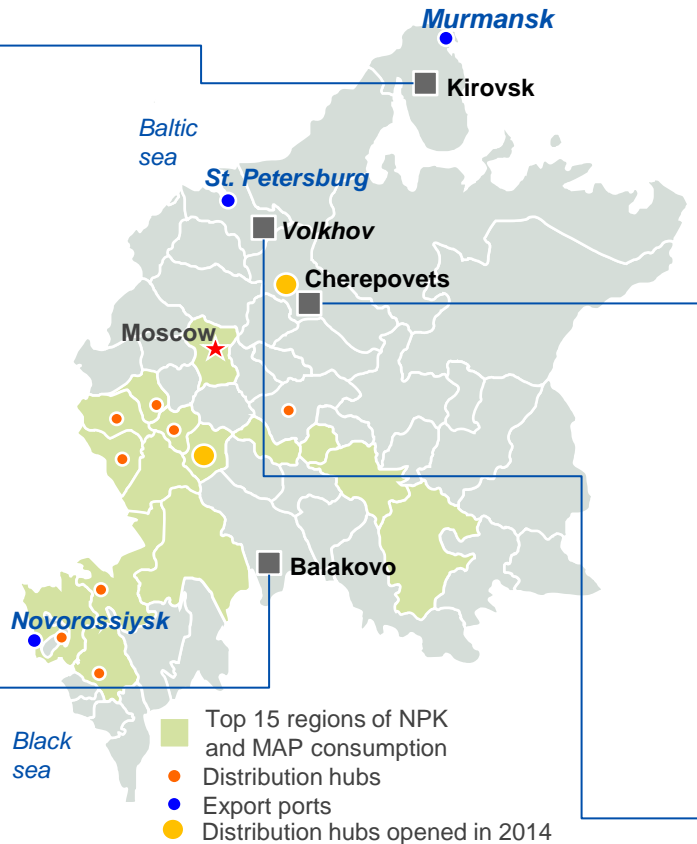


### Capacity by product

MAP/DAP/NPS: 1.4 mn t  
 Feed phosphate (MCP): 270 kt

### Highlights

- Leading European producer of feed phosphate MCP
- Only Russian producer of MCP



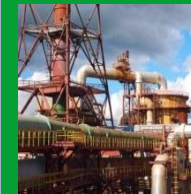
### PhosAgro-Trans (Transportation)

- Operates around 7,000 railcars, of which the majority are mineral hoppers

### PhosAgro-Region (Domestic distribution)

- Owns and operates eight distribution centres in Russia located in proximity to major agricultural regions of Russia
- Largest distributor in Russia

## PhosAgro-Cherepovets



### Capacity by product

MAP/DAP/NPK/NPS: 3.5 mn t  
 Ammonia: 1,186 kt  
 AN/AN-based: 450 kt  
 Urea: 980kt  
 APP: 140 kt  
 $AlF_3$ : 35kt

### Highlights

- Largest standalone phosphate fertilizers producer in Europe
- Largest standalone producer of sulphuric and phosphoric acids in Europe
- One of the largest standalone producers of urea, ammonia, AN/AN-based fertilizers in Russia

## Metachem



### Capacity by product

Sulphuric acid: 215 kt  
 Phosphoric acid: 80 kt of  $P_2O_5$   
 PKS: 100 kt  
 Sulphate of potash (SOP): 80 kt  
 Sodium tripolyphosphate (STPP): 130 kt

### Highlights

- Unique SOP granulating technology in Russia
- Close proximity to St. Petersburg sea port

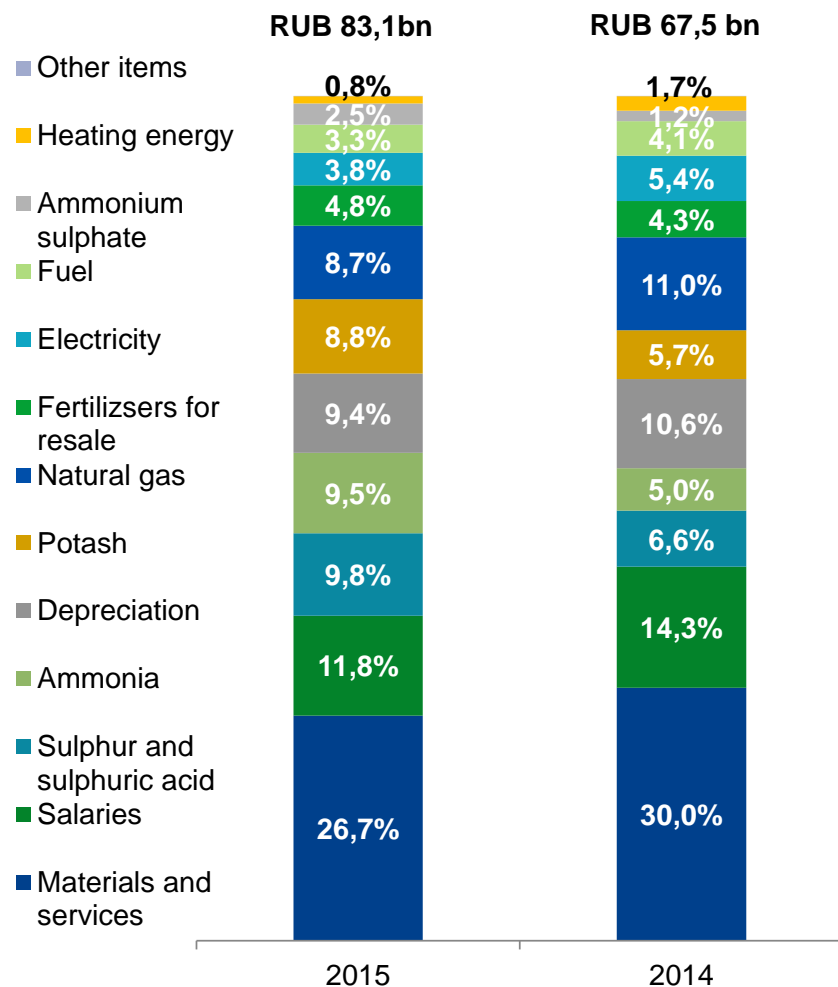
Source: PhosAgro (capacity as of December 31, 2015), CRU, European Commission

Note: (1) Measured and indicated, PhosAgro, IMC, JORC report June 2011

(2) Rare earth oxides

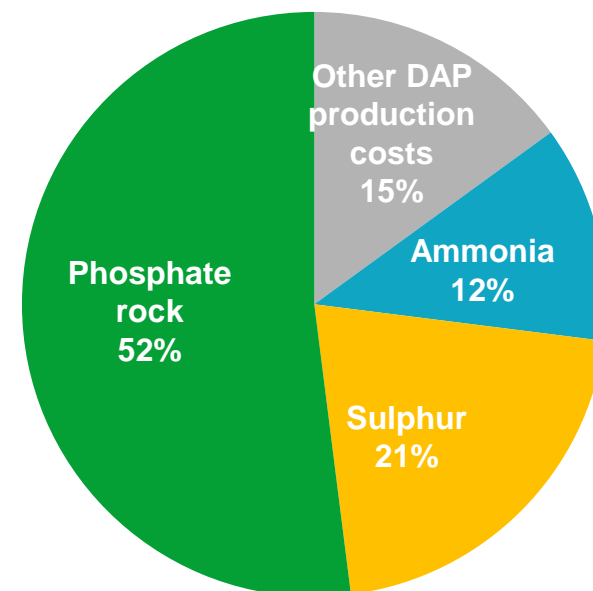
(3) Defined as phosphate rock with  $P_2O_5$  content over 35.7%

## Cost of Goods Sold



## DAP production cash cost breakdown

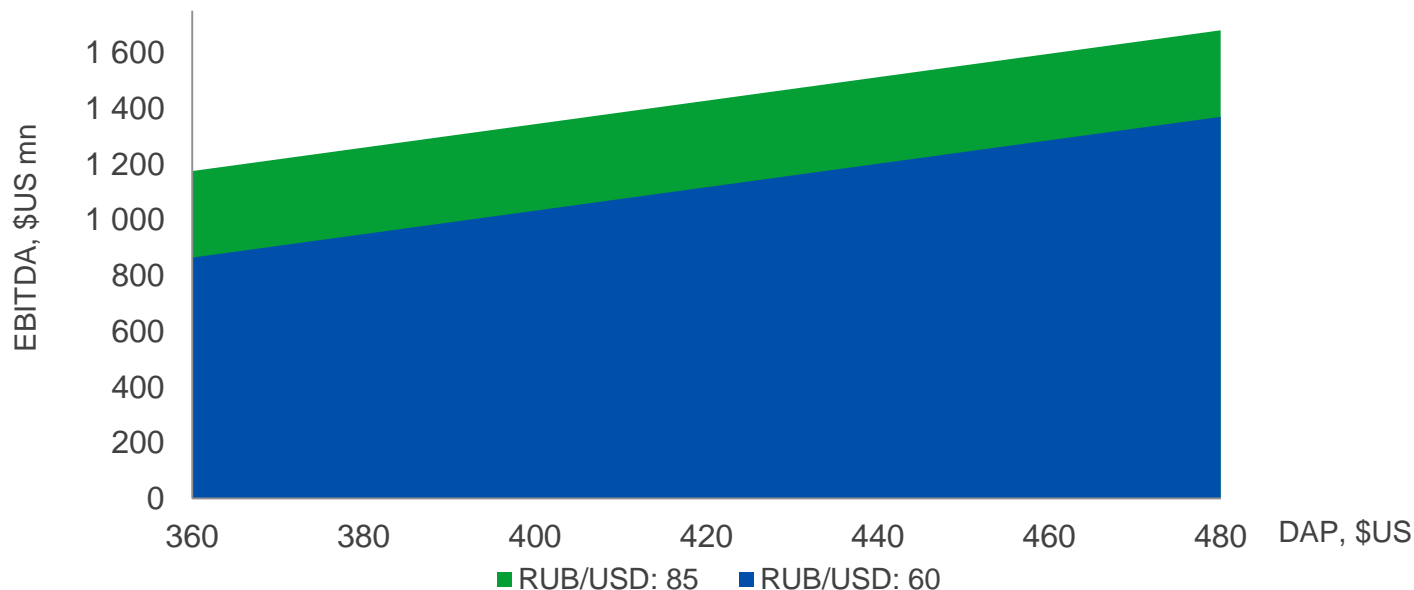
ExW, US\$, FY2015



Source: PhosAgro

(1) Phosphate-based fertilizers, MCP, STPP and nitrogen fertilizers

## RUB devaluation: EBITDA sensitivity<sup>(1)</sup>

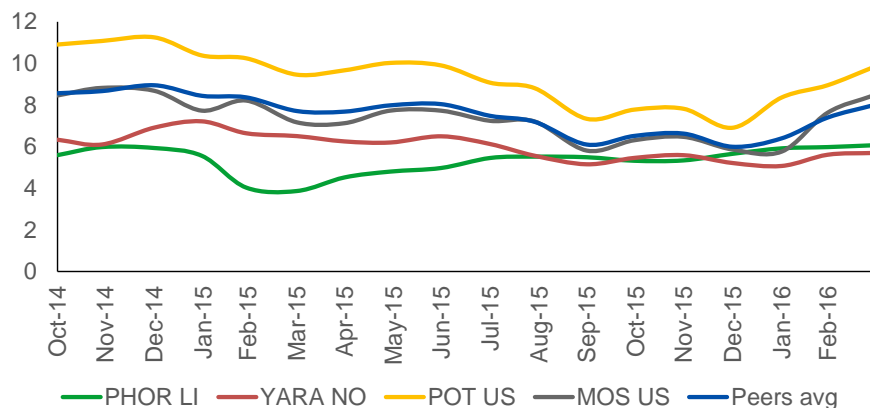


in mln USD		2016F DAP FOB Baltic price, \$/tonne						
		360	380	400	420	440	460	480
RUB/USD exchange rate	60	864	949	1,033	1,117	1,201	1,285	1,370
	65	946	1,030	1,114	1,198	1,282	1,367	1,451
	70	1,015	1,099	1,184	1,268	1,352	1,436	1,520
	75	1,076	1,160	1,244	1,328	1,412	1,497	1,581
	80	1,128	1,213	1,297	1,381	1,465	1,549	1,634
	85	1,175	1,259	1,343	1,428	1,512	1,596	1,680

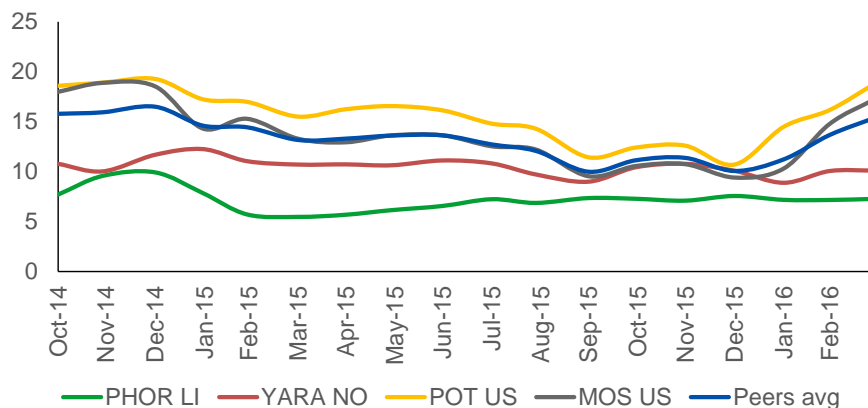


# Performance relative to peers

**EV/EBITDA 1yr fwd**



**P/E 1yr fwd**



Company	Current Price, USD	Mcap, \$ mln	EV/EBITDA		P/E		Dividend yield,%	
			2016E	2017E	2016E	2017E	2016E	2017E
<b>PhosAgro</b>	<b>14,0</b>	<b>5 439</b>	<b>6,1</b>	<b>5,5</b>	<b>7,3</b>	<b>7,1</b>	<b>6,9%</b>	<b>6,7%</b>
<b>International peers</b>								
Potash Corp	19,2	16 023	9,8	8,8	18,9	15,8	5,2%	5,5%
Yara Int	40,1	11 037	5,7	5,5	10,1	9,8	4,4%	4,5%
Mosaic	30,2	10 638	8,5	7,5	17,3	14,0	3,7%	3,7%
<b>Median</b>			<b>8,0</b>	<b>7,3</b>	<b>15,4</b>	<b>13,2</b>	<b>4,4%</b>	<b>4,6%</b>
<b>Discount , %</b>			<b>24%</b>	<b>24%</b>	<b>53%</b>	<b>46%</b>		

\* - Calculated based on 50% payout ratio and FY16 and FY17 NI forecast provided by Bloomberg

# Dividend history

## Dividends

Post-IPO dividends	per share, RUB	per GDR, RUB	per GDR, US\$
2011 (April-December)	57,50	19,20	0,61
2012	82,90	27,60	0,88
2013	34,75	11,60	0,35
2014	45,00	14,97	0,29
1Q2015	48,00	16,00	0,31
2Q2015	57,00	19,00	0,29
3Q2015	63,00	21,00	0,32
4Q2015	57,00	19,00	0,28
<b>Subtotal for 2015</b>	<b>225,00</b>	<b>75,00</b>	<b>1,20</b>

## Total paid

Post-IPO dividends	Dividends, RUB bn	Net profit attributable to shareholders, RUB bln	Payout ratio, %
2011 (April-December)	7,2	14,6	49%
2012	10,4	21,3	49%
2013	4,5	7,6	59%
2014	7,8	13,6	57%
9mo2015	21,8	31,6	69%
<b>Total</b>	<b>51,7</b>	<b>88,7</b>	<b>58%</b>

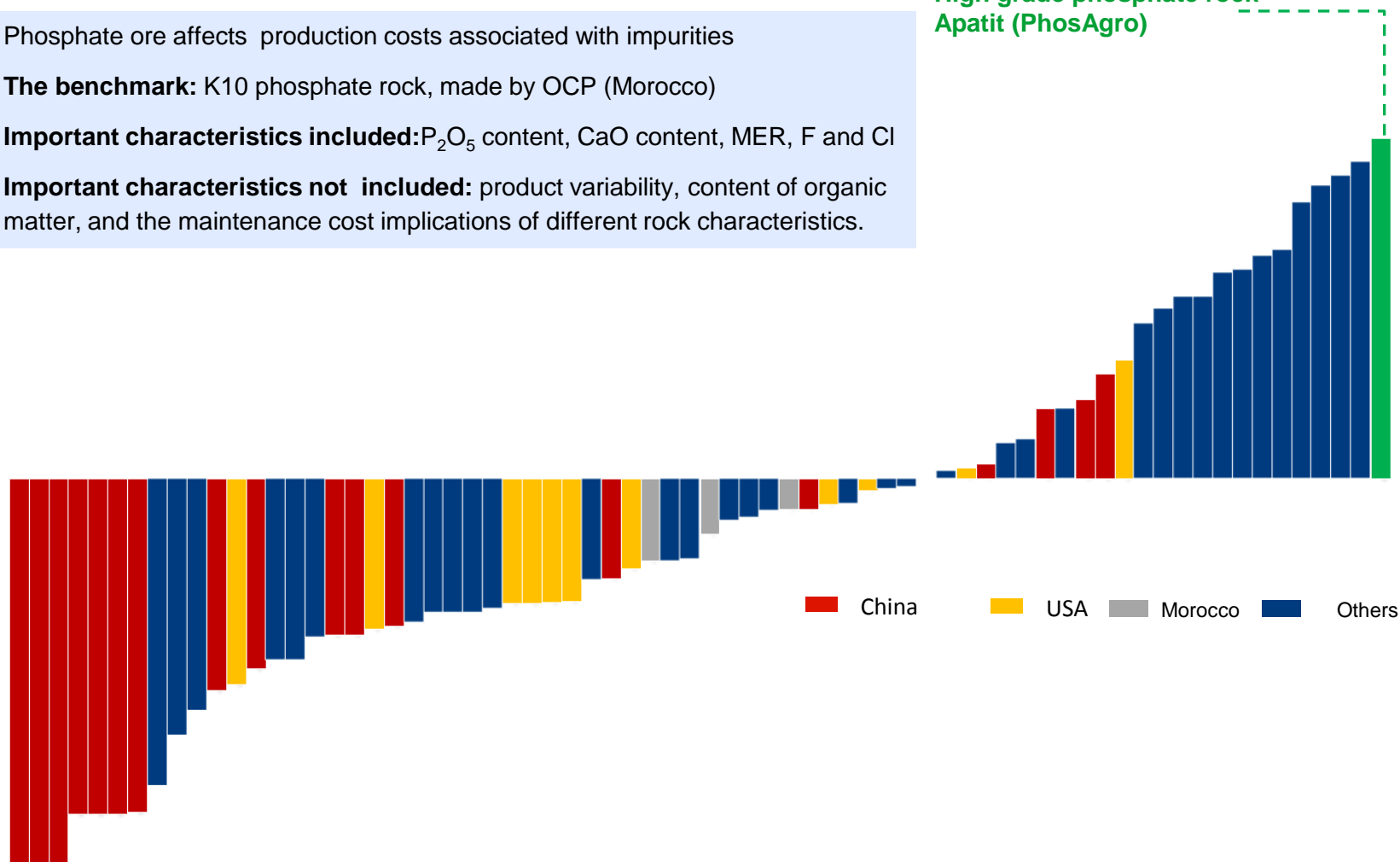
Source: PhosAgro

Note: (\*) - for recommended dividend for 4Q 2015 per GDR applied USD/RUB exchange rate 67.7 (as of 23 March 2016)

## Premium/discount to the most affordable Moroccan phosphate rock

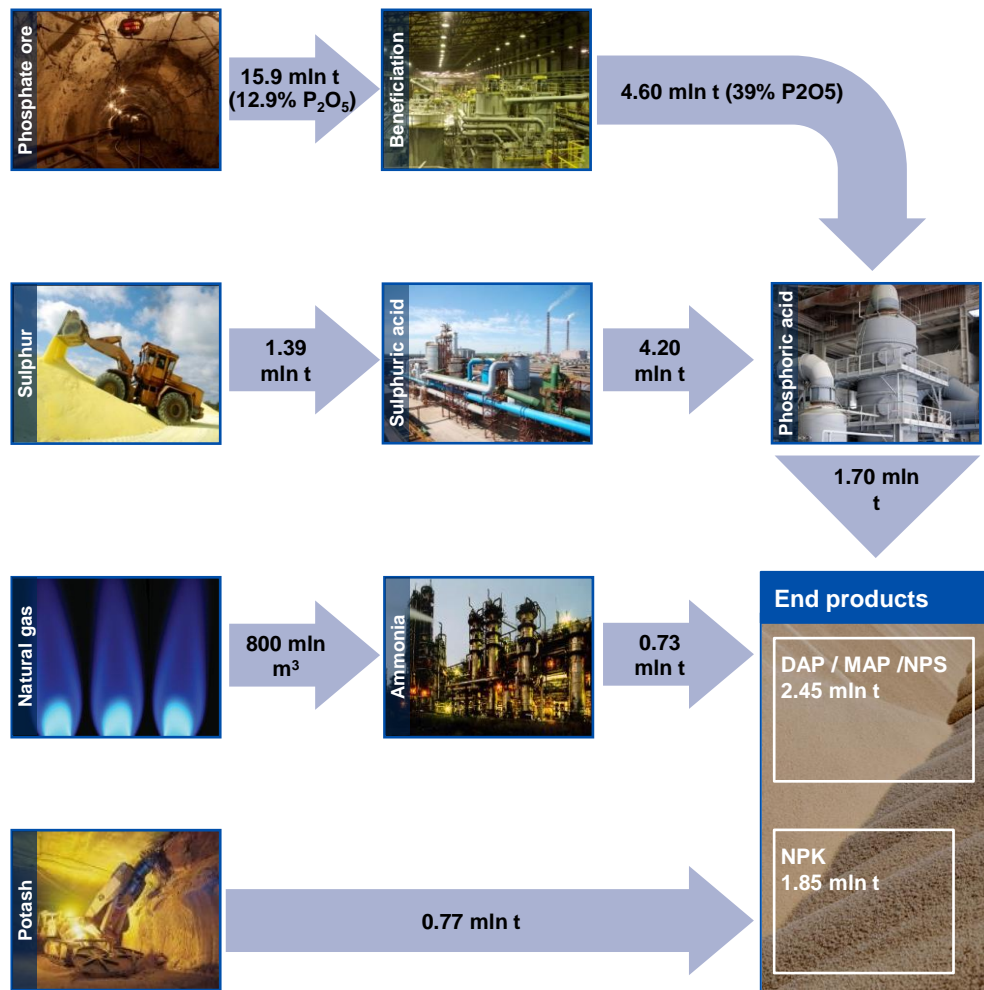
- Phosphate ore affects production costs associated with impurities
- The benchmark:** K10 phosphate rock, made by OCP (Morocco)
- Important characteristics included:**  $P_2O_5$  content, CaO content, MER, F and Cl
- Important characteristics not included:** product variability, content of organic matter, and the maintenance cost implications of different rock characteristics.

High grade phosphate rock  
Apatit (PhosAgro)



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

## Integrated phosphate-based production model <sup>(1)</sup>



## Replacement cost

Ma'aden		PHOSAGRO		
Key products		MAP, DAP, NPK, NPS, Urea, AN		
Production facilities	Capacity, mln t p.a.	CAPEX, mln \$US	Capacity, mln t p.a.	Replacement cost, mln \$US
Mining and beneficiation	5.0	1,330	7.8	2,697
Sulphuric acid	4.7	620	4.8	642
Phosphoric acid	1.5	523	1.9	740
Ammonia	1.09	951	1.15	1,000
Phosphate fertilizer	2.9	486	4.3	716
Nitrogen fertilizer	-	-	1.4	684
Infrastructure and other		~ 2,000		~ 4,000
<b>Total</b>		<b>~ US\$ 6 bln</b>		<b>~ US\$ 10 bln</b>
<b>Current capitalization</b>		<b>US\$ 4.6 bln<sup>(2)</sup></b>		

**Ma'aden – total est. CAPEX<sup>(3)</sup>: US\$ 6 bln**

**Construction period: 6 years +**

**Over US\$ 2,000/tonne**

Source: PhosAgro, Maaden, Fertecon, Integer, Reuter

Note: (1) Based on PhosAgro's consumption ratios

(2) Bloomberg, as of April 2014

(3) CAPEX for the Phosphate Project





**PHOSAGRO**

***Thank you!***

