

Knowledge grows

Yara International ASA Bernstein Conference

Petter Østbø, EVP, Chief Financial Officer 26 September 2018



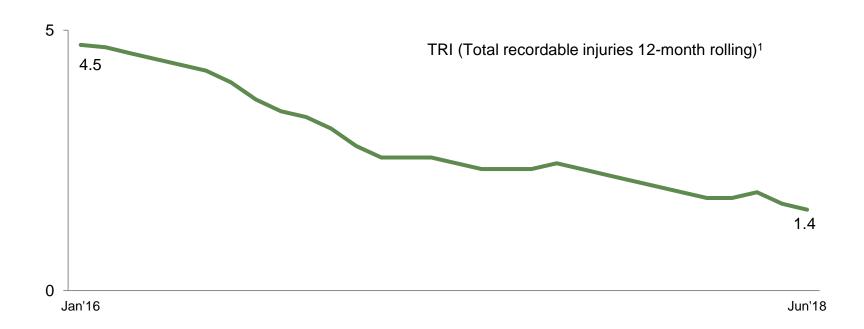


Agenda

• Yara introduction

- Market fundamentals
- Yara strategy
- Targets

Safe operations is our first priority

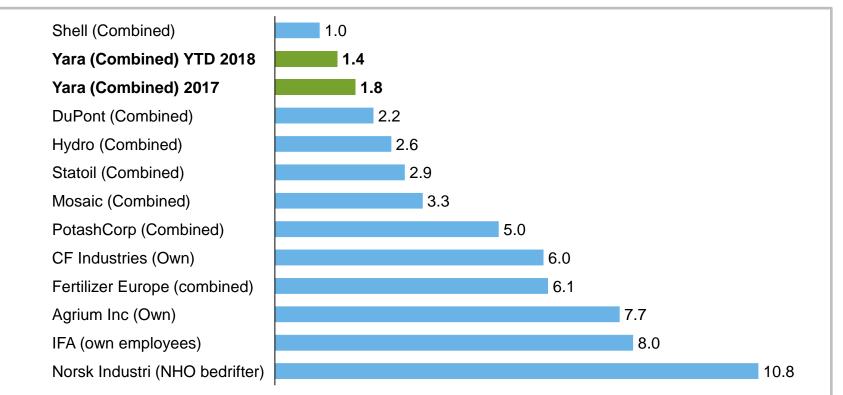


1) TRI: Total recordable injuries, lost time (absence from work), restricted work and medical treatment cases per one million work hours.



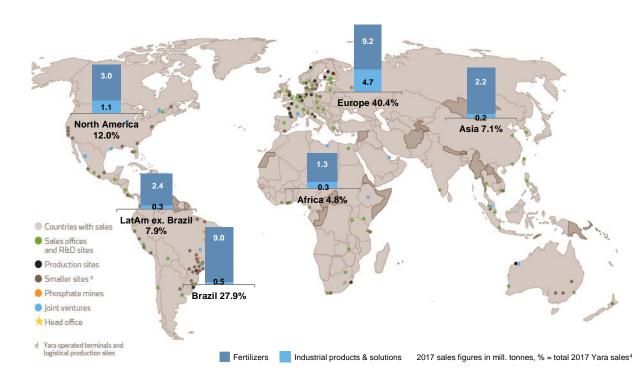
External safety benchmark

TRIs per million hours worked

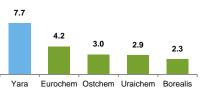




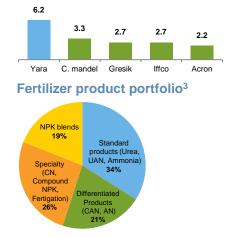
Yara's leading global position and differentiated product portfolio represent key sources of competitive edge



Global #1 in Nitrates¹

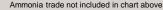


Global #1 in NPK²





Including TAN and CN – Including companies' share of JVs 2016YE
 Compound NPK, excluding blends
 2016/2017 season volume



Why is nitrate fertilizer the better nitrogen fertilizer?







best fit for precision agriculture



up to 90% reduced ammonia emissions



improved local environment



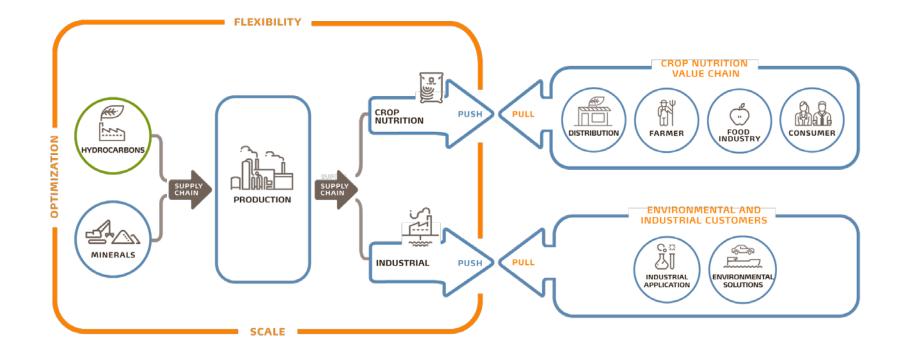
up to **15 %** lower GHG emissions



only N-source in a carbon neutral future

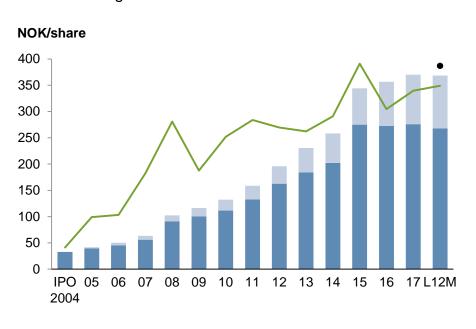


Yara's integrated business model is unique within the fertilizer industry





Profitable growth through the cycle

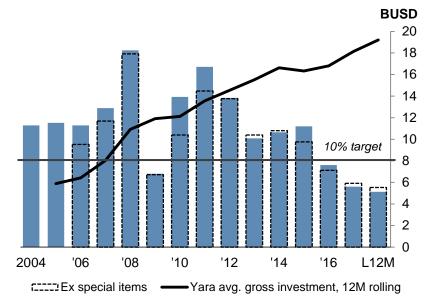


Average annual share price

Share price 24 Sep 2018

Average annual shareholder return of 20%¹

Average cash return on gross investment (CROGI) well above the Yara CROGI target of 10%



1) Share price appreciation (end 2Q 18) plus dividend payments

Accumulated cash dividend payments



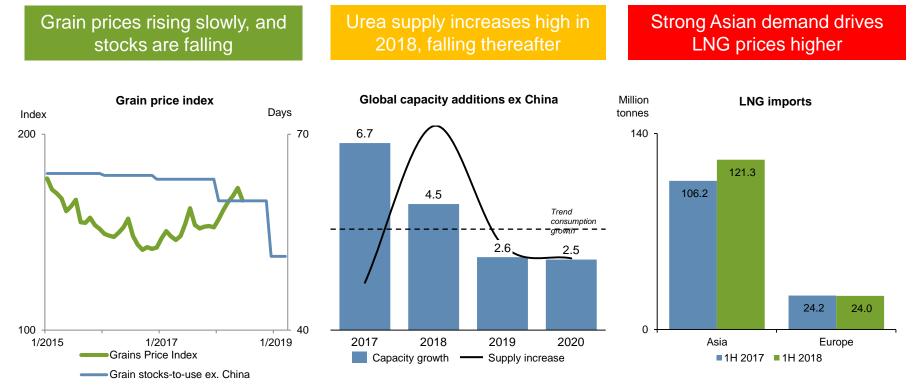
Book equity

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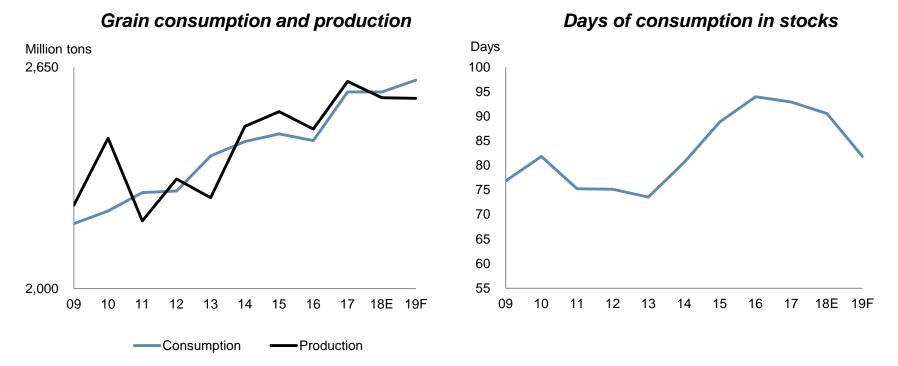


Market fundamentals improving, with positive developments towards 2019 on grain stocks and urea supply





Steady growth in grain consumption, production expected to fall short for the 2018/19 season



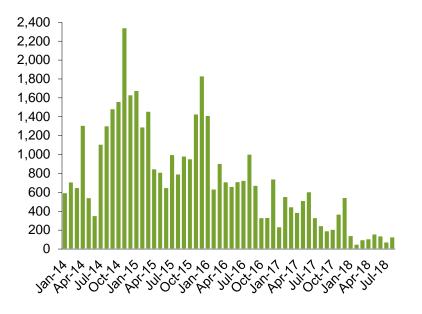
Source: USDA August 2018



Stronger global pricing, pulling Chinese pricing higher as well

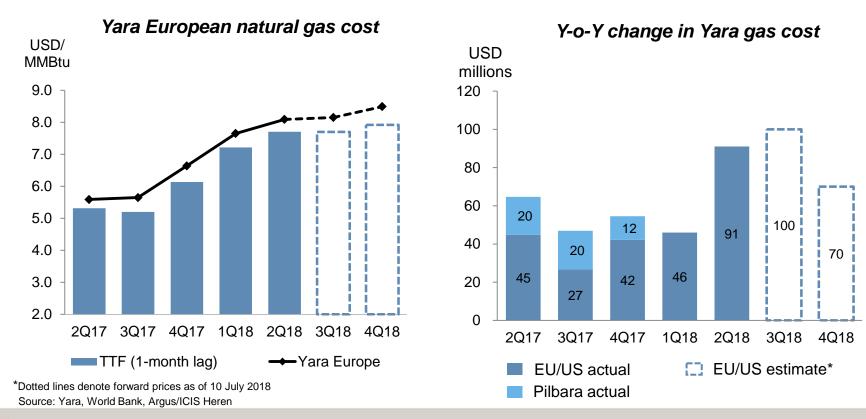
Increasing urea pricing (USD/ton) 390 370 350 330 310 290 270 250 230 210 190 170 Janis APTINS JUL S 0000 Janno JUITT 0°t-17 121,18 A91,18 e 'e 'e 'e 'e 'i 'i ^{NN} 0^{CT} Urea fob Black Sea Urea prilled fob China Urea granular fob Egypt Urea inland proxy China Source: BOABC, CFMW

Lower Chinese export (thousand tonnes)





Higher natural gas cost expected for the next two quarters





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Yara's mission and vision guides our strategy

Our Mission

Responsibly feed the world and protect the planet.

Our Vision

A collaborative society; a world without hunger; a planet respected.



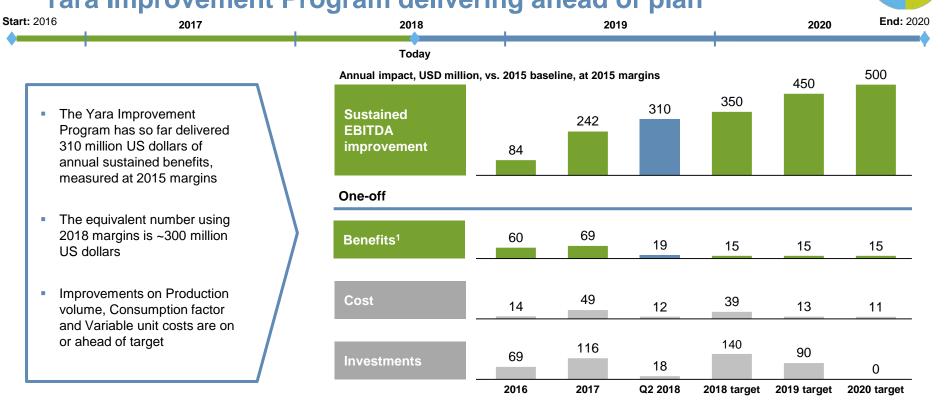
The Crop Nutrition Leader

We will grow responsible solutions to farmers, industry and society, while delivering superior return on capital

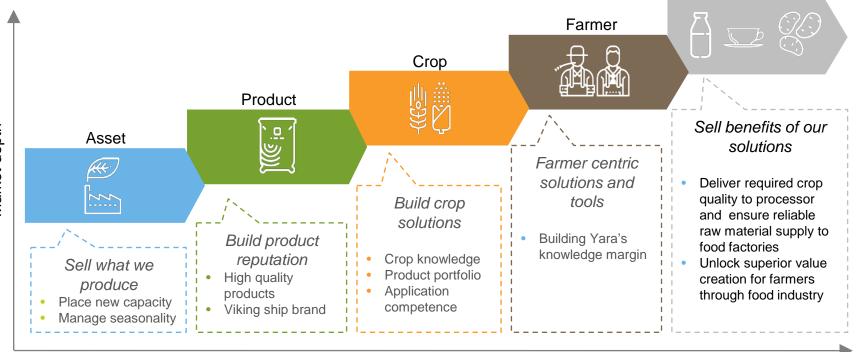




Advance Operational excellence; Yara Improvement Program delivering ahead of plan



<u>Create</u> Scalable Solutions; Closer collaboration with the Food Industry



YARA

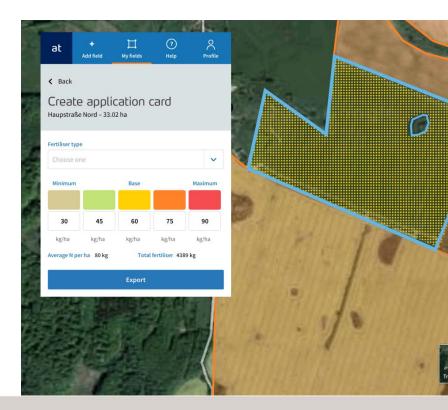
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Create

Food Industry

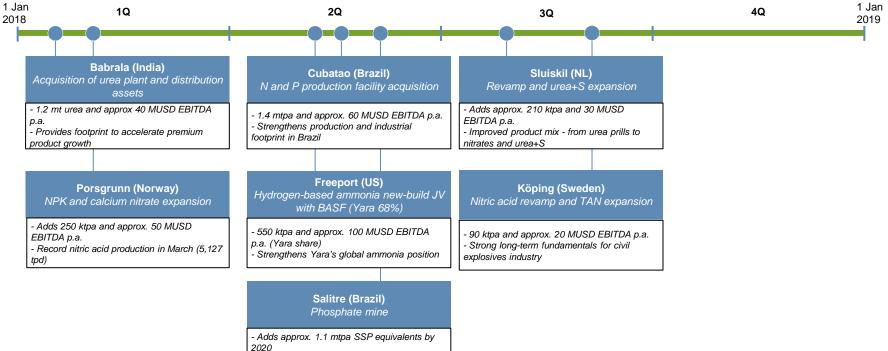
Precision fertilization made simple - atfarm

- 10x10m precision application of fertilizer
- Quantitative recommendation "in only 5 clicks"
- Empowered by decades of Yara precision fertilization R&D
- Benefits for farmers
 - Higher yield
 - Reduced waste
 - Higher protein content





Drive Innovative Growth; Yara is delivering on its growth pipeline



- Limited earnings until chemical production

starts end 2019

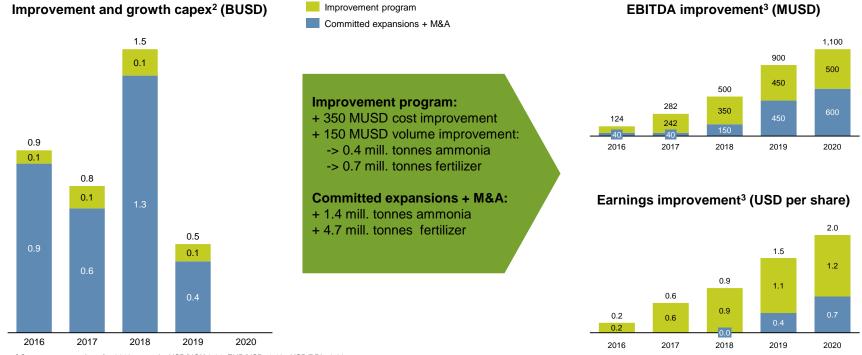
EBITDA figures at 2015 prices except Cubatão which reflects business case prices



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Major improvement and growth investments in 2018; main earnings improvement from 2019 onwards¹



¹ Currency assumptions for 2018 onwards: USD/NOK 8,01, EUR/USD: 1.18 , USD/BRL: 3.83

².Excluding maintenance capex on existing assets . Yara's share of capex. Fully consolidated entities presented at 100% basis

³ Measured at 2015 conditions. Main average market prices: Ammonia fob Yuzhny 390 USD/t, Urea fob Yuzhny 275 USD/t, DAP fob Morocco 495 USD/t

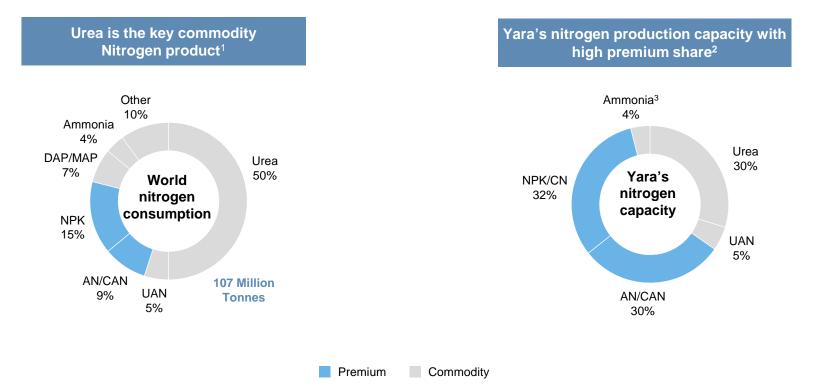


Knowledge grows

Market

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Yara's margins contain both commodity and premium elements



1) Source: International Fertilizer Association ("IFA") 2016/2017 season (June 2017 estimates)

2) Yara's nitrogen production capacity (incl. JVs) measured in product tonnes – exclude blends and phosphates products

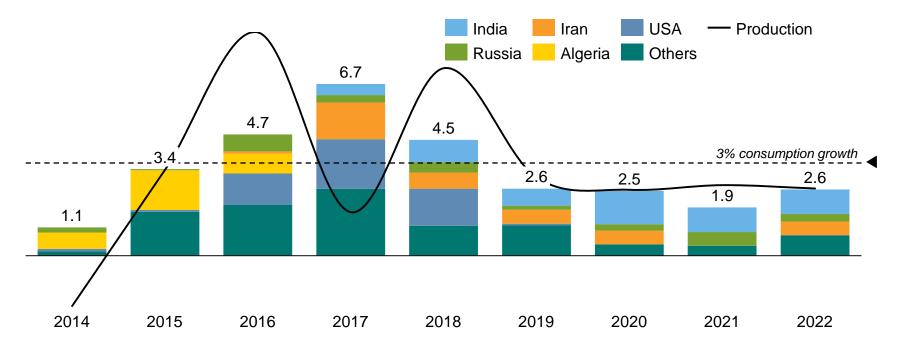
3) Net ammonia long position (excess ammonia for sale)

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VARA

Strong urea supply growth this year, but supply-demand balance set to gradually improve after 2018

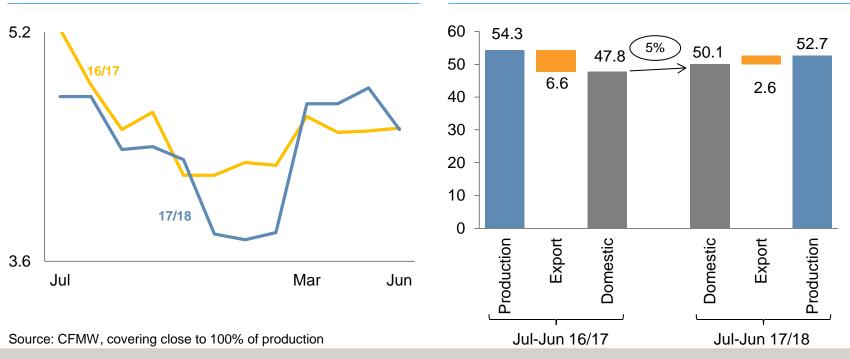
Global urea capacity additions excl. China (mill. tonnes)



Source: CRU June 2018 - CRU has removed Dangote Fertilizer, Nigeria (3 mill tons) from the medium-term forecast and shifted the project to 2023

VARA

Chinese domestic supply slightly up, as export decline more than offsets lower production



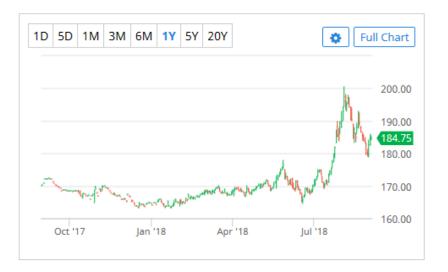
Export reduction exceed production decline (million tons)

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Chinese urea production down vs last year (million tons)

Grain prices significantly up from last year

Corn Nov 2018 contract France (EUR/tonnes)

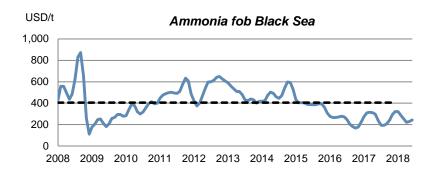


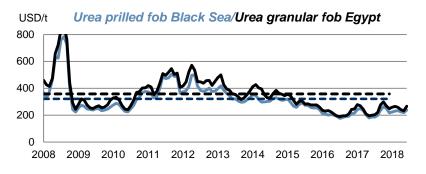
Wheat (milling) Dec 2018 contract France (EUR/tonnes)

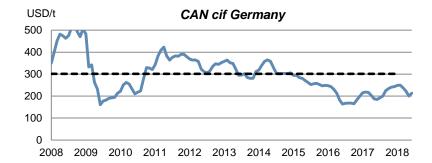


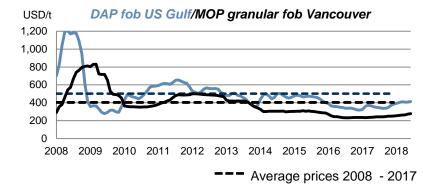


10-year fertilizer prices – monthly averages





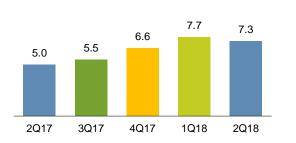




Source: Fertilizer Market Publications

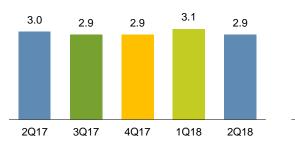


Key value drivers – quarterly averages



US gas price Henry Hub (USD/MMBtu)

TTF day ahead (USD/MMBtu)



Urea prilled fob Black Sea (USD/t)/Urea granular fob Egypt (dotted line, USD/t)



286

4Q17

287

1Q18

Ammonia fob Black Sea (USD/t)

198

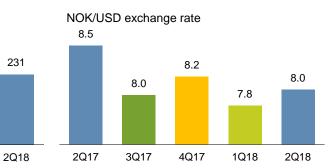
3Q17

282

2Q17

CAN cif Germany (USD/t)





Source: Fertilizer Market Publications, CERA, World Bank, Norges Bank

YARA

Business model and strategy

Three operating segments supported by a global supply chain function cover the value chain

	Production	Crop Nutrition	Industrial
Description	Runs large-scale production of nitrogen- based products, the starting point for our crop nutrition and industrial solutions	Provides worldwide sales, marketing and distribution of a range of crop nutrition products and programs	Develops and markets environmental solutions and products for industrial applications
Credit highlight	Production has plants and mines globally, providing scale and flexibility	Crop Nutrition creates resilience in earnings with distribution and agronomic competence	Industrial segment reduces cyclicality and seasonality
2017 Revenues ¹	0.9 BUSD 8%	8.7 BUSD 76%	1.8 BUSD 16%
2017 EBITDA ²	0.7 BUSD 54%	0.5 BUSD 36%	0.2 BUSD 12%
Supply Chain	 Global function responsible for optimization of energy, raw materials and third party sourcing Sourcing and trade of 4,175 kilotonnes of ammonia and purchases of 286 mm MMBtu of energy, 3,456 kilotonness of potassium and 1,042 kilotonnes of phosphate rock 		

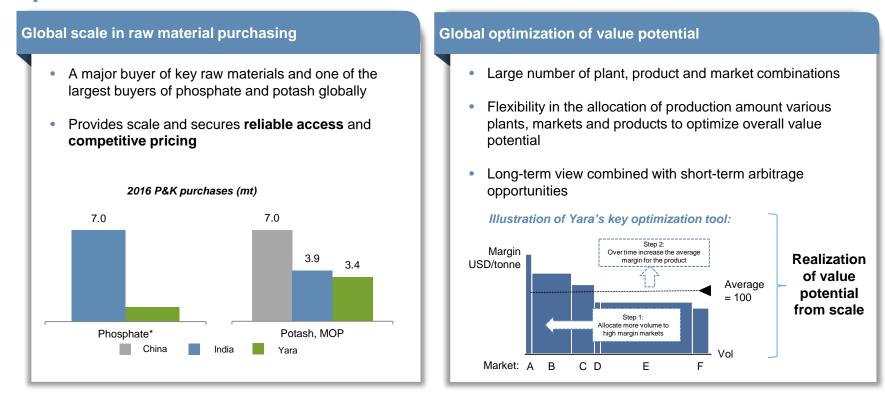


External revenues and other income Excluding other and eliminations

1)

2) Excluding other and eliminations USD translations use USD/NOK exchange rate of 8.12

Supply Chain creates global scale in raw material purchases and optimization



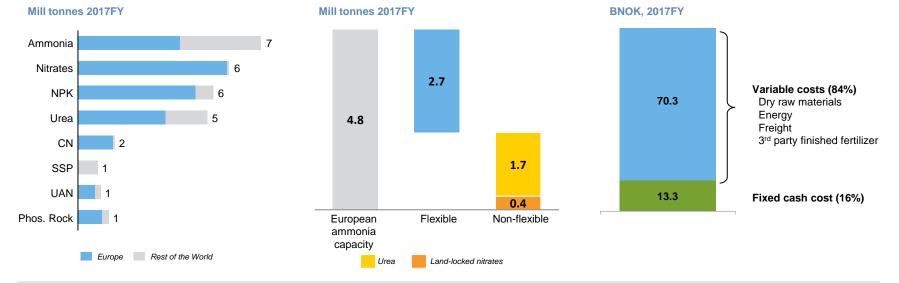


Production scale advantage and variable cost flexibility due to asset set-up and product mix

Diversified product portfolio¹

High ammonia flexibility

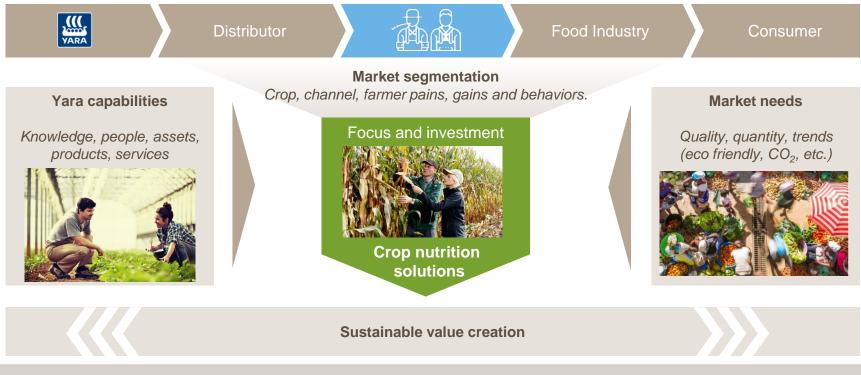
Yara's operating cash costs are mostly variable



~90% of nitrate and NPK production can operate independently of ammonia production

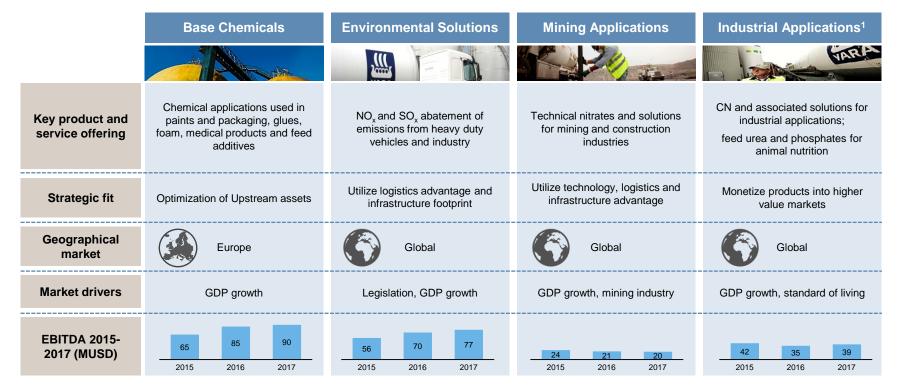


Crop Nutrition creates resilience in earnings through distribution of crop nutrition solutions in response to farmer needs





Industrial segment delivers opportunities for growth and offsets fertilizer cyclicality and seasonality





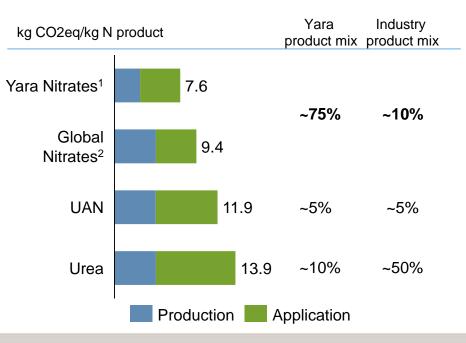
Yara's solutions improves food production per hectare, delivered through products with lower emissions per ton

Yara crop nutrition practices enables farmers to optimize application – and thus lower emissions



- Precision farming promotes best agricultural practices
- Yara's N-sensor, N-tester and water sensor help optimize application rates and water use
- Yara's solutions help farmers comply with environmental legislation while supporting their competitiveness

Yara's product mix has significant less emissions than most of our competitors'





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1. Assumed 15% lower application rates for nitrates, due to lower volatilization

2. Average emissions from production higher, partly driven by plants running without N2O catalysts

Growth & Improvement

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Yara Improvement Program – 2017 status

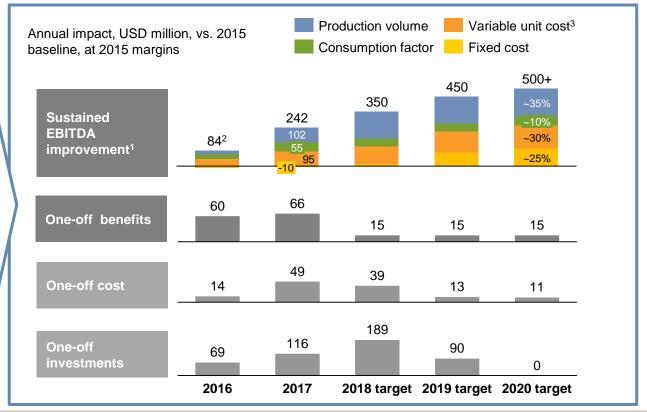
Program progress

YARA



- 2017 EBITDA benefits ahead of target (in 2015 terms):
 - Production volume improvement according to plan
 - Energy consumption improvement ahead of plan
 - Variable cost improvement ahead of plan
 - Fixed cost improvement behind plan
 - One-off program costs higher than original estimate

Financial benefits



- Additional details in the backup section;
- . Adjusted for corrected full-year procurement savings (e.g., full-year bonuses)

3. Includes improvements to direct and indirect categories, as well as value of additional steam and reduced cost of emissions

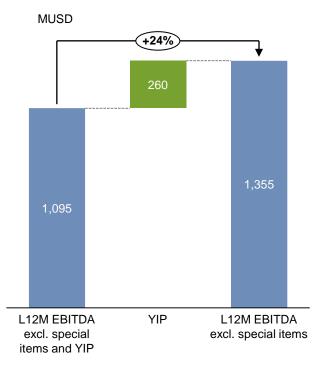
Benefits are realized through improvements to core value drivers

	Value driver	How we improve How we know				
More for less	Volume ¹	Increase production in our existing plants by improving reliability	~400 kt additional ammonia and ~700 kt additional finished fertilizer production by 2020 ⁶			
	Consumption factor ²	Reduce spend on consumption factors, primarily energy, through better reliability and new technology	~3 % improved energy efficiency by 2020 ⁶		\$500MM sustained	
	Variable unit cost ³	Leverage global scale, apply advanced category management and collaborative procurement approaches	Reduced spend in direct and indirect categories	i	EBITDA improvement by 2020 ⁷	
	Fixed cost ⁴	Increase focus on standardization and realizing scale benefits	Reduced spend on fixed costs in production and support functions			
	Cash effects⁵	Capex: Increased standardization, more focus on execution strategy and capability building in the organization Working capital: Better targets and training	Capex: Lower spend for the same project portfolio Working Capital: Reduced inventory and credit days			
Added value	Commercial effects	Profitable growth of value added products through more targeted offerings and sales channels development	Volumes and margins enhancement			



¹ Production volume; ² Energy cost and other input factors; ³ Direct and indirect procurement; ⁴ Fixed costs in production, IT, supply chain and expert functions; ⁵ Capex and working capital; ⁶ Targets are not final and subject to change as additional plant 40 assessment deep-dives are completed; ⁷ Against 2015 baseline

Yara Improvement Program accounts for ~20% of L12M EBITDA



 L12M earnings impacted by lower fertilizer prices and higher natural gas cost (~900 MUSD)

• Yara Improvement Program is (1) a driver of improved long-term Yara performance and (2) a response to challenging market conditions

 Measured at L12M margins and prices, the equivalent number is approximately 260 MUSD. This represents almost 20% of Yara L12M EBITDA excluding special items.



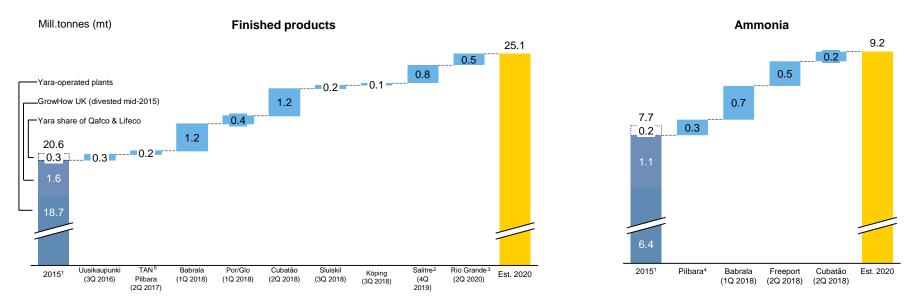
Yara has expected commodity nitrogen oversupply, and has focused its growth pipeline on premium & industrial products

Growth focused on	premium & industrial	Expected start up	Pipeline EBITDA (2015 prices, USDn			
Expand premium products sales and supply	Uusikaupunki NPK Porsgrunn/Glomfjord CN/NPK Sluiskil urea+S Rio Grande NPK/NPK blends	3Q 2016 1Q 2018 3Q 2018 2H 2020	40	160	180	190
Expand commodity scale	Freeport ammonia JV	2Q 2018		150	2020 	2021
based on attractive full-cost growth opportunities	Babrala urea acquisition	1Q 2018	70 2018	3 2019	2020	2021
Act on attractive	Pilbara – TAN	2Q 2017 ²				
opportunities to grow	Köping – TAN	3Q 2018	40	90	110	120
ndustrial sales and supply	Cubatão – N and P	2Q 2018	201	8 2019	2020	2021
	Galvani / Salitre	mining 2Q18, chemical 4Q19			170	170
tructurally secure P and K supply			0	30		
зарріу			201	3 2019	2020	2021
			Sum 150	430	610	620

¹⁾ Including Yara's share of volume in equity accounted investees. Fully consolidated entities presented at 100% basis ²⁾ Plant started up in 2Q 2017, but has suffered from technical difficulties and the site is currently undergoing a turnaround.



Yara is delivering on its growth pipeline; multiple plant expansions and M&A coming on stream in 2018 Production growth 2015 - 2020



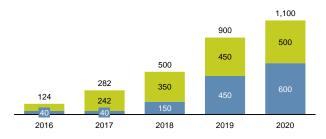
Adjusted to normalized / 2016 turnaround level (0.7mt finished fertilizer and 0.2mt NH₂) and regularity level (0.7mt finished fertilizer and 0.4mt NH₂) 1)

- 2) Salitre will reach 1.1 mill.tonnes in 2022
- 3) Rio Grande expansion also adds 1 million tonnes NPK blends by 2020
- Including 100% ownership in Pilbara NH₃ plant (not included in committed growth pipeline) 4)
- 5) TAN Pilbara started up in 2Q 2017, but has suffered from technical difficulties and the site is currently undergoing a turnaround

Improvement and growth investments; earnings and sensitivities

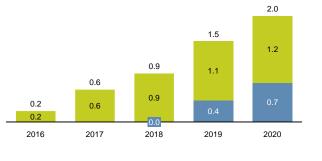
Improvement program

Growth

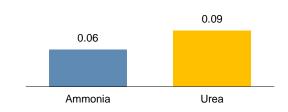


EBITDA improvement¹ (MUSD)

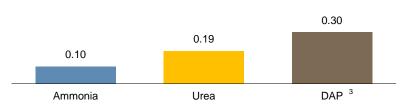
Earnings improvement¹ (USD per share)



Improvement program: Impact² of +100 USD/t price change (USD/share)



Growth: Impact² of +100 USD/t price change (USD/share)



¹ Measured at 2015 conditions. Main average market prices: Ammonia fob Yuzhny 390 USD/t, Urea fob Yuzhny 275 USD/t, DAP fob Morocco 495 USD/t.

² Improvement: 2020 numbers. Growth: At full capacity (2019 for urea and ammonia, 2020 for DAP).
 ³ Phosphate-driven price change, equivalent to 138 USD/t phosphate rock (72 bpl)

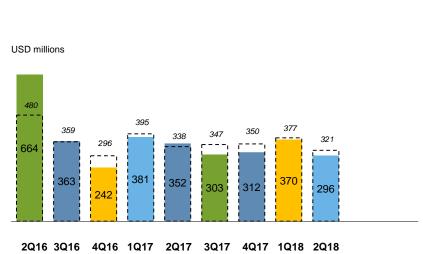


Financial

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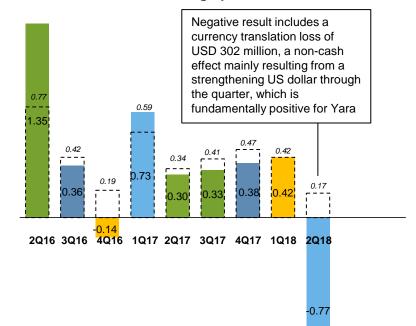
Earnings per share impacted by higher energy cost and currency translation loss

EPS excluding currency and special items



EBITDA

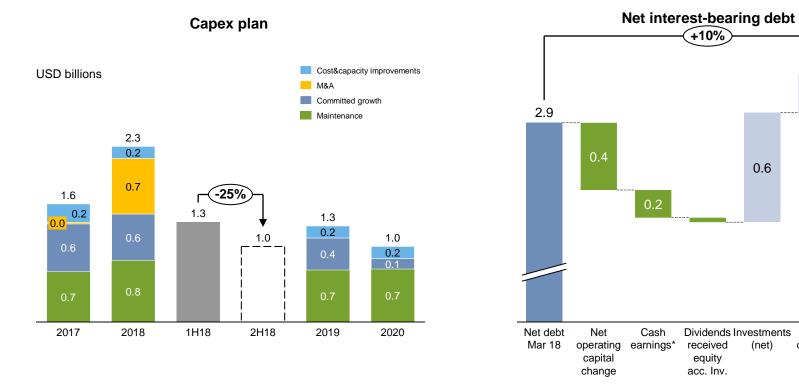
Earnings per share



Average number of shares for 2Q 2018: 273.2 million (2Q 2017: 273.2 million).



Yara investment activity peaked in first half 2018



* Operating income plus depreciation and amortization, minus tax paid, net gain/(loss) on disposals, net interest expense and bank charges



3.2

0.2

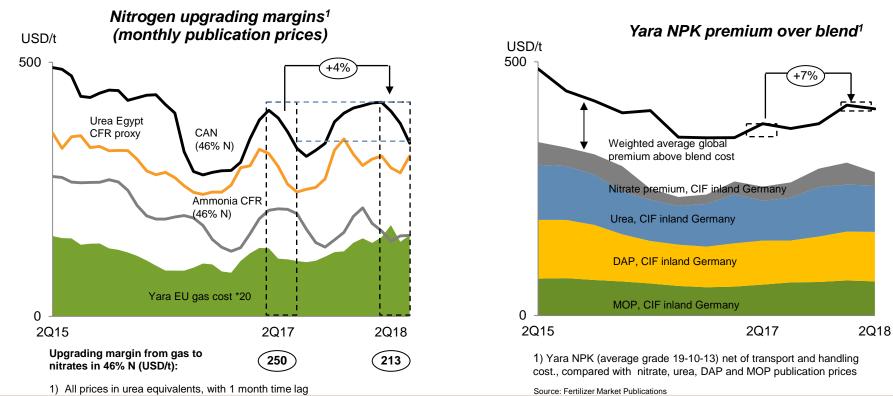
Yara

dividend

Net debt

Jun 18

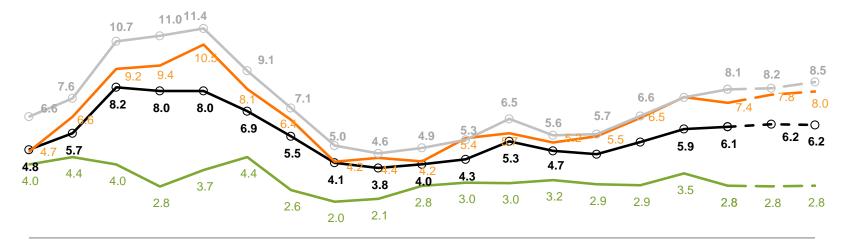
European market nitrate prices up 4%; Yara realized NPK prices up 7%





Energy cost

Yearly averages 2009 – 2015, quarterly averages for 2016-18 with forward prices* for 3Q18 and 4Q18.



2009 2010 2011 2012 2013 2014 2015 1Q16 2Q16 3Q16 4Q16 1Q17 2Q17 3Q17 4Q17 1Q18 2Q18 3Q18 4Q18

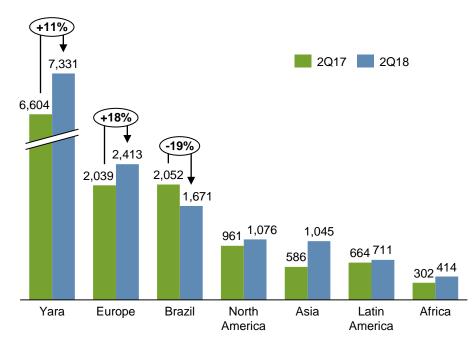
*Dotted lines denote forward prices as of 10 July 2018 Source: Yara, World Bank, Argus/ICIS Heren



Production and Deliveries

Increased deliveries in all main markets except Brazil, where truck strike impacts negatively

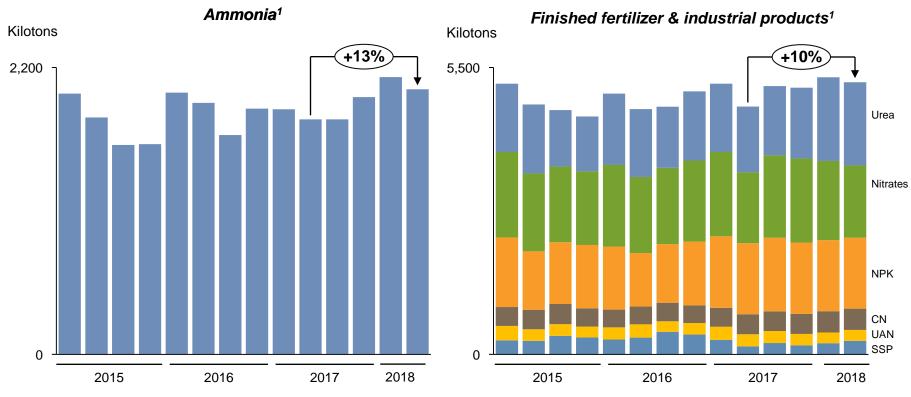
Kilotons







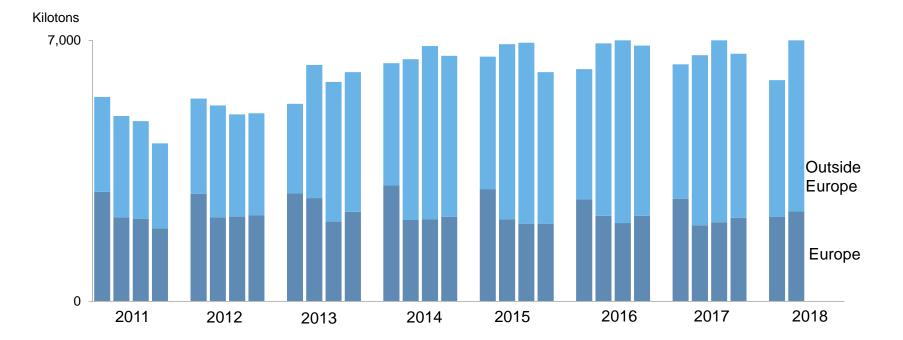
Increased ammonia and finished products production



¹⁾ Including share of equity-accounted investees

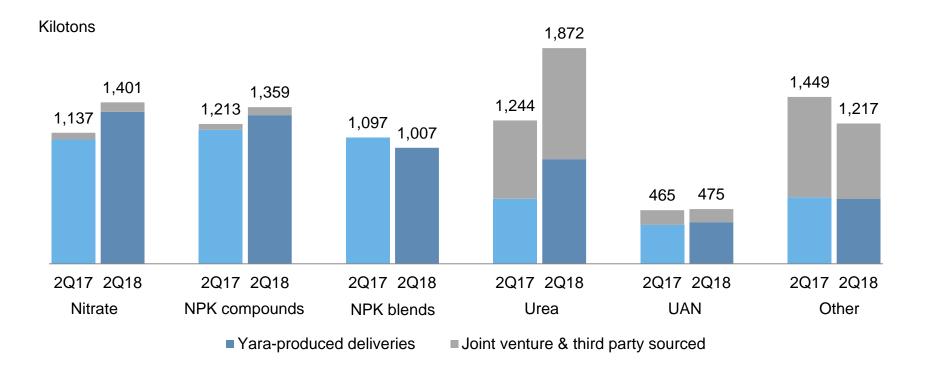


Fertilizer deliveries



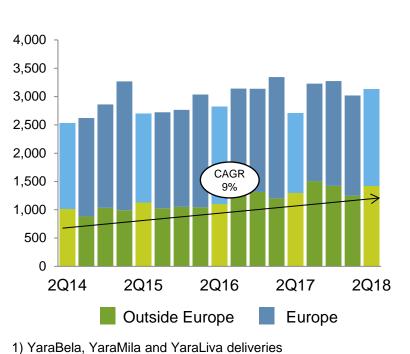


Fertilizer deliveries by product and source



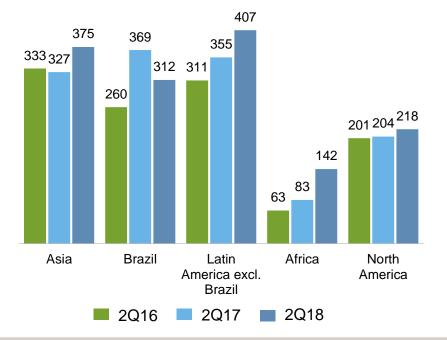


Strong premium product deliveries



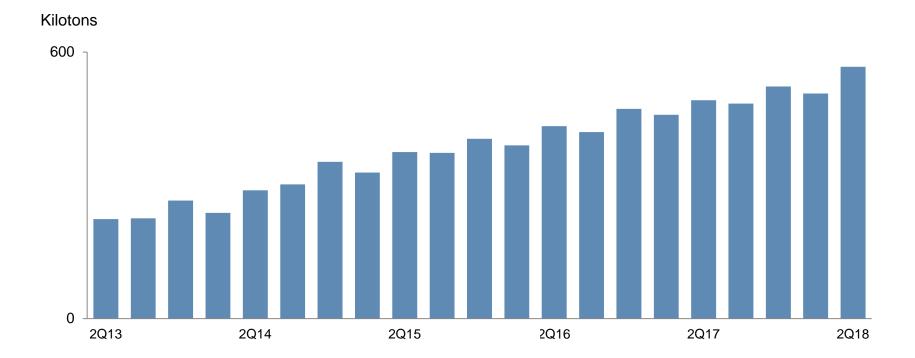
Value-added fertilizer deliveries¹

Value-added fertilizer deliveries¹





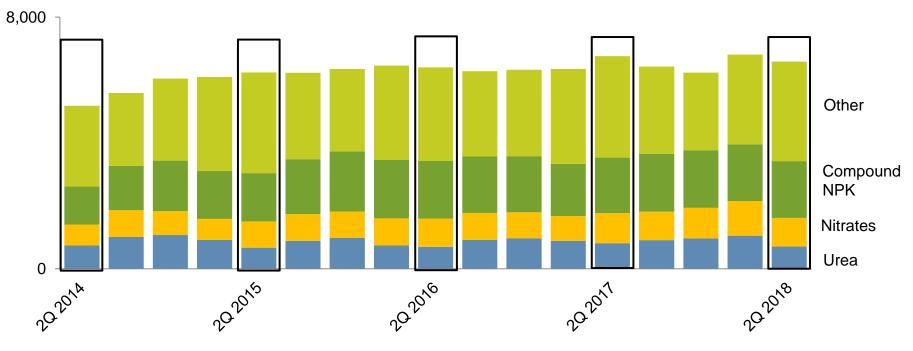
AdBlue deliveries





Yara stocks

Kilotons Finished fertilizer







Knowledge grows