

PARADIGM SHIFT IN AGRI-INDUSTRY

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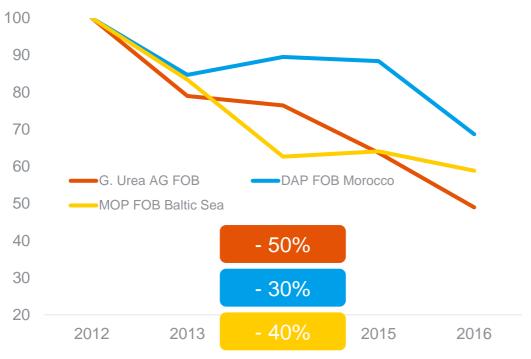


RECENT CHANGES



PRICES OF KEY FERTILIZERS DECLINED SHARPLY

Price development 2012 – 2016 FC Indexed (2012 =100)



Oversupply

• Urea: 77% Util. Rate

DAP: 67% Util. Rate

China export in Urea

2012: 7 mmt2015: 15 mmt

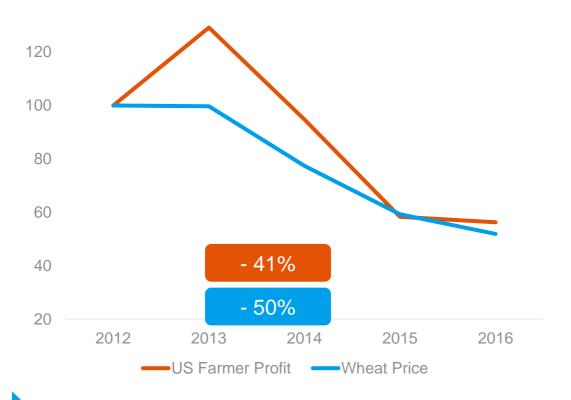


Source: CRU, Ferticon, SABIC



WHEAT AND FARMER INCOME DECLINED

Wheat price development and Farmer Income USA 2012 – 2016 FC Indexed (2012 =100)



Fertilizer make up to 20% of the total farmers `s costs in field crops

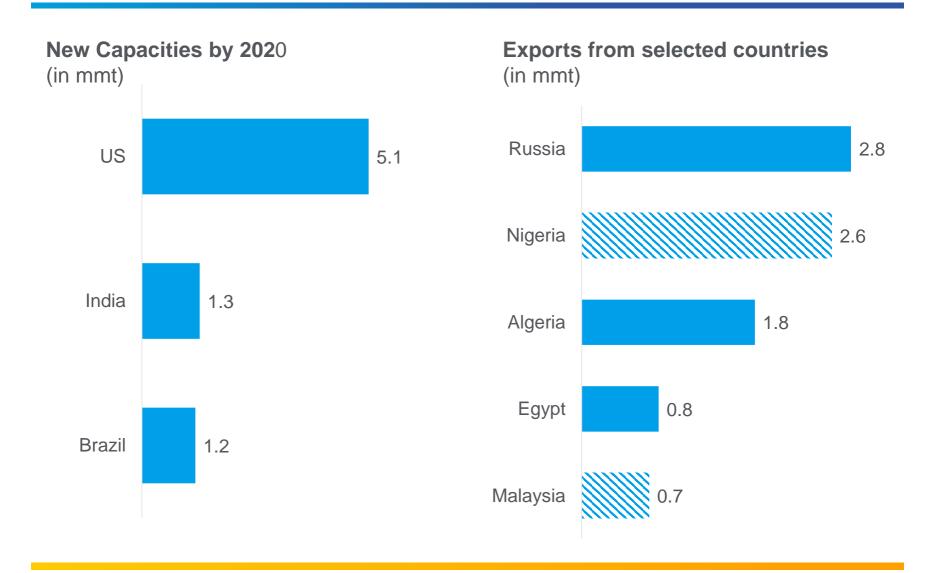


Decline in Farmers' profit is not supportive of fertilizer prices

Source: CRU, Ferticon, SABIC



KEY N IMPORTERS ARE TARGETING SELF RELIANCE

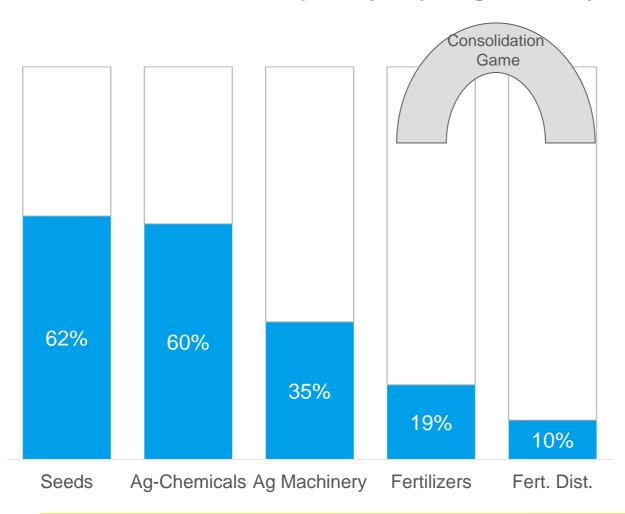


Source: CRU , SABIC analysis



CONSOLIDATION CONTINUES

Global Market Share of top 5 Players per Agro-Industry Segment



- Grain traders limiting to core business
- Fertilizer companies integrate downstream in distribution

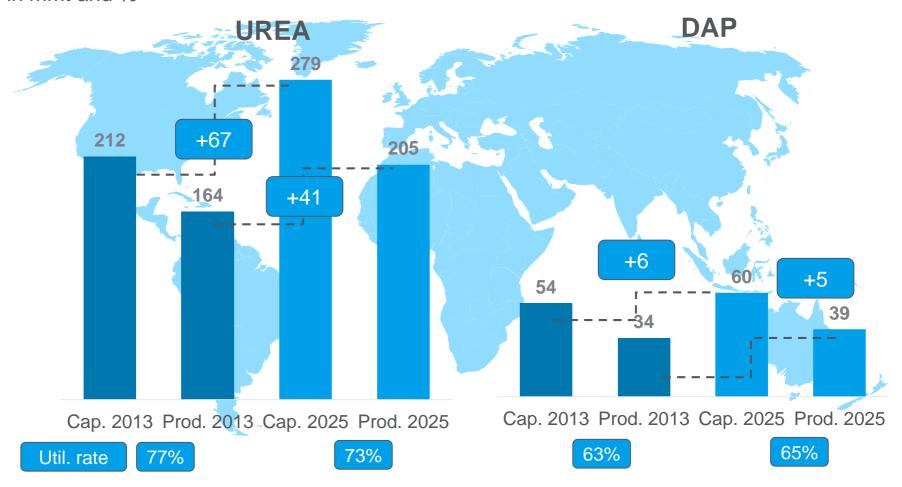
Source: SABIC analysis

FUTURE CHALLENGES



OVERSUPPLY WILL CONTINUE

UREA and DAP Global capacity, damand and utilization development (2013 – 2025) in mmt and %

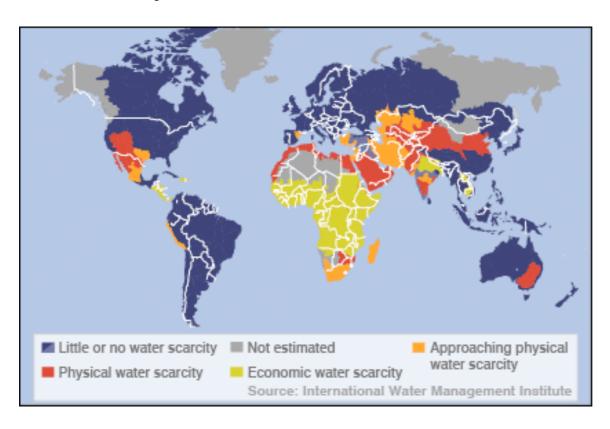


Source: SABIC, Fertecon



WATER SCARCITY AND SOIL DEGRADATION WOULD NEED DIFFERENT SOLUTIONS

Water scarcity and Micronutrients Deficit



20% of total arable land suffer from water scarcity 25 % of the earth's lands are degraded 41% of earth surface

consists of high salinity soils

20% of North American soils have a S- deficit

85% of the cereal growing area is affected by low Zn in India

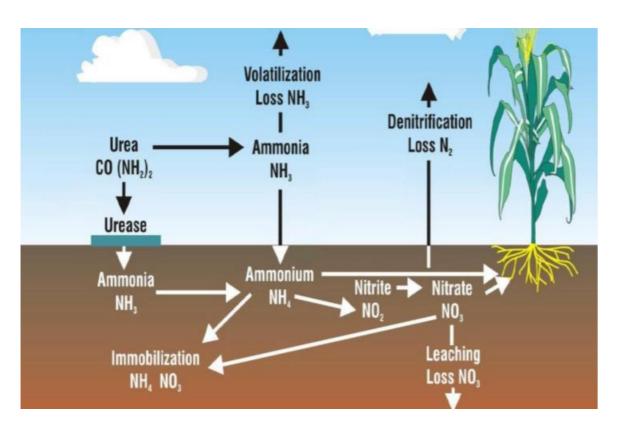


Source: SABIC, FAO

SUSTAINABILITY – ADDRESS ENVIRONMENTAL AND HUMAN HEALTH CONCERNS



Sustainability



More than 30% of applied nitrogen can be lost due to ammonia volatilization, nitrate leaching and denitrification

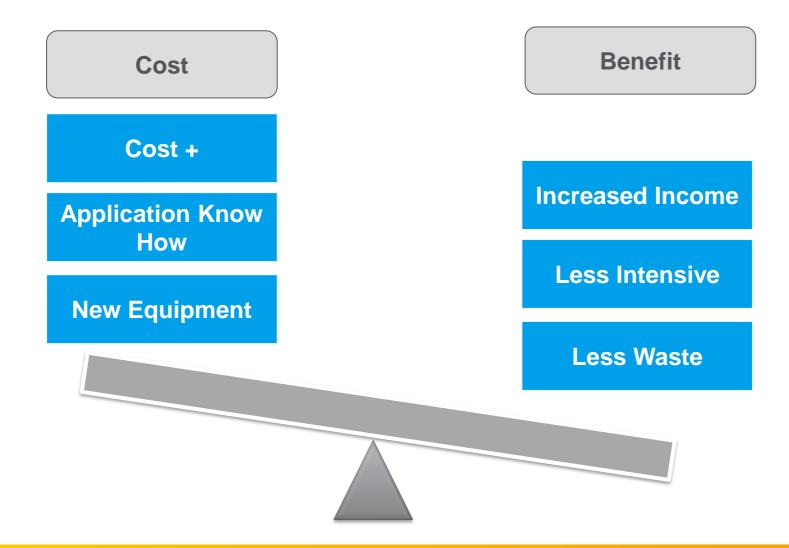
Retaining nitrogen in the soil to nourish the crop
By applying "control release" and "slow release" Urea or NPKs

Consumers would demand healthy products

Need to provide micro-essentials such as B, Cu, Zn, Se proactively besides affordable slow/control release fertilizers



NEW ENHANCED EFFICIENCY FERTILIZERS NEED A CLEAR COST-BENEFIT CASE



Source: SABIC analysis

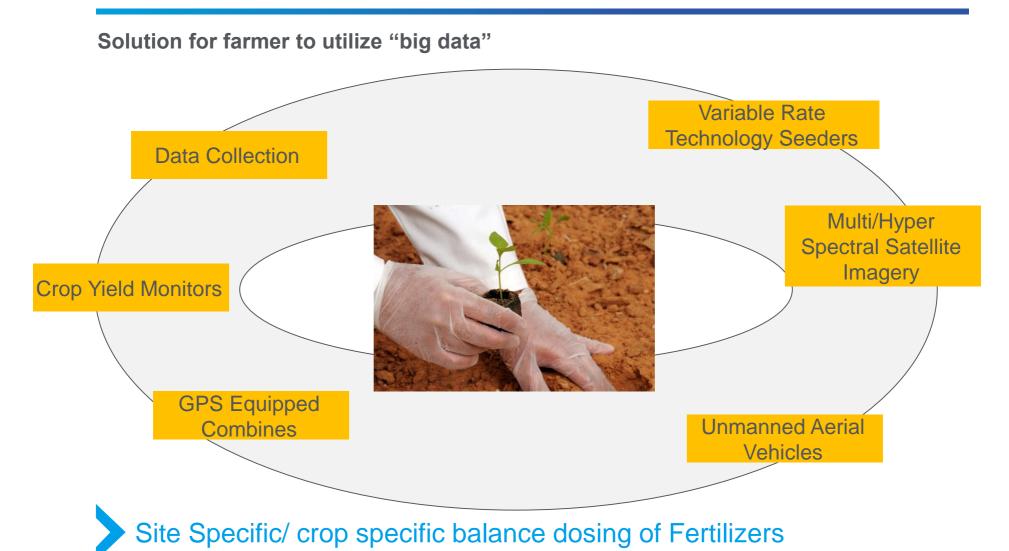


CHINA - REMAINS A KEY INFLUENCER?

- Greater reduction in emissions, phasing out old plants
- New coal-fired power plants to be "ultra low emissions"
- Focus on High yielding and cost efficient crop production
- Zero growth in use of pesticide and chemical fertilizers
- Fast in developing and selling new fertilizer solutions



"PRECISION FARMING" WILL GAIN IMPORTANCE

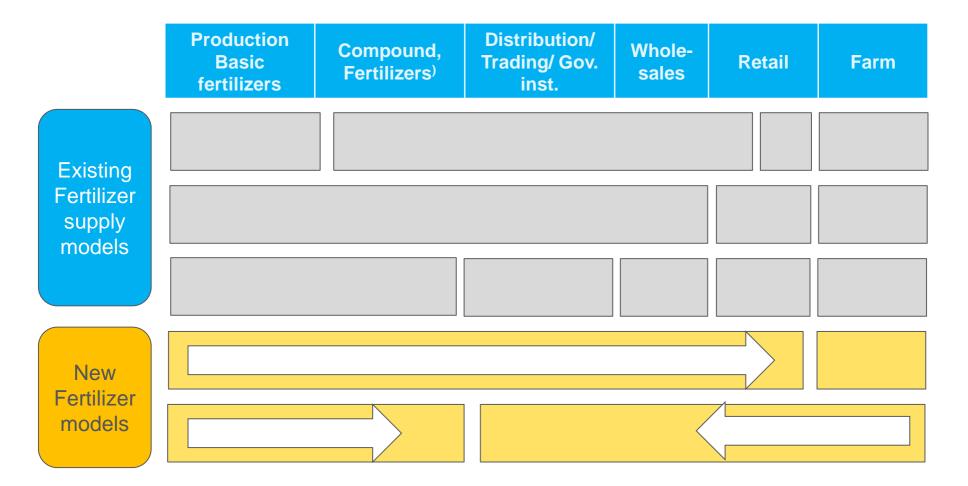


Source: Company reports, SABIC



SUPPLY MODELS WOULD EVOLVE

Value Chain Integration Fertilizers



Source: SABIC



IMPLICATIONS ON GCC PRODUCERS

Major Changes in Fertilizer Supplier Model

Existing

Commodity portfolio



Stand alone business model

Standard cash management cycle

Transactional Model



Indicative Future

 Commodity plus Value added Products



Partnership, cooperation's and M&A

 Value Chain integration and risk management

Partnership Model





THANK YOU