

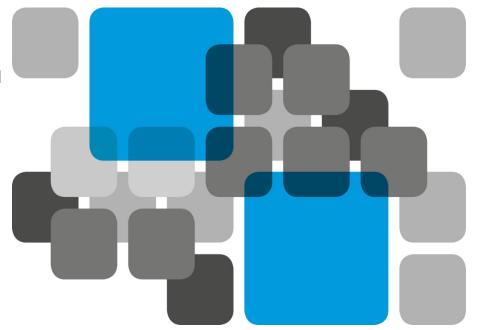
# **Global Fertilizer Demand Outlook**

TFI Fertilizer Outlook and Technology Conference Savannah, Georgia, USA

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Rajiv Ram – Senior Analyst, Agriculture and Fertilizer Demand <a href="mailto:rajiv.ram@crugroup.com">rajiv.ram@crugroup.com</a>

+44 20 7903 2122





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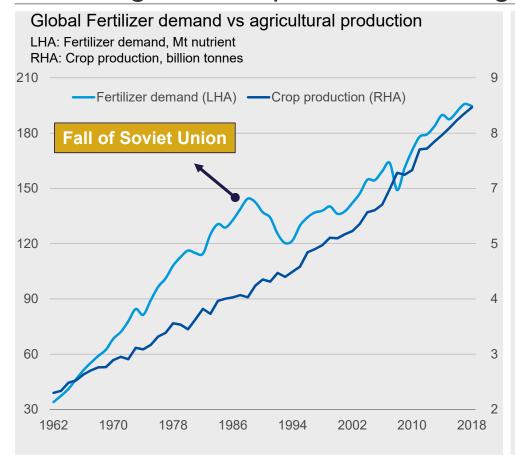
### Presentation overview

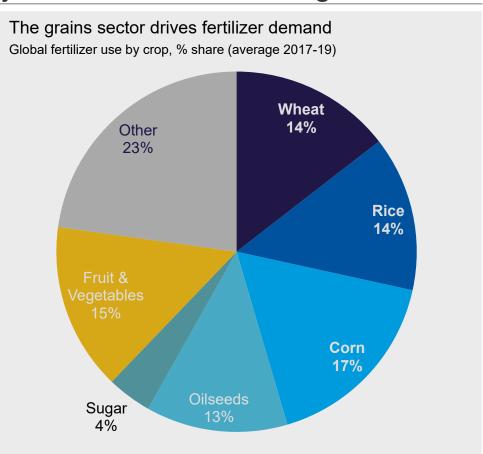






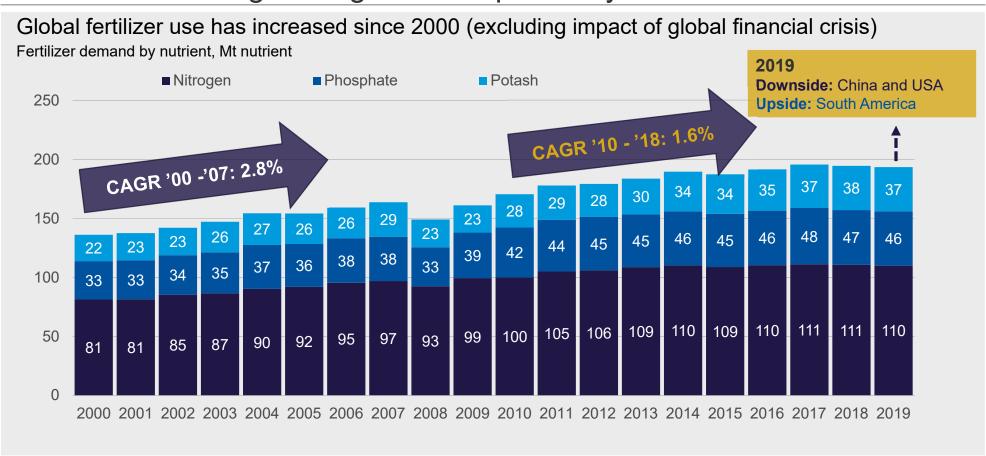
## Global agricultural production strongly linked to fertilizer usage





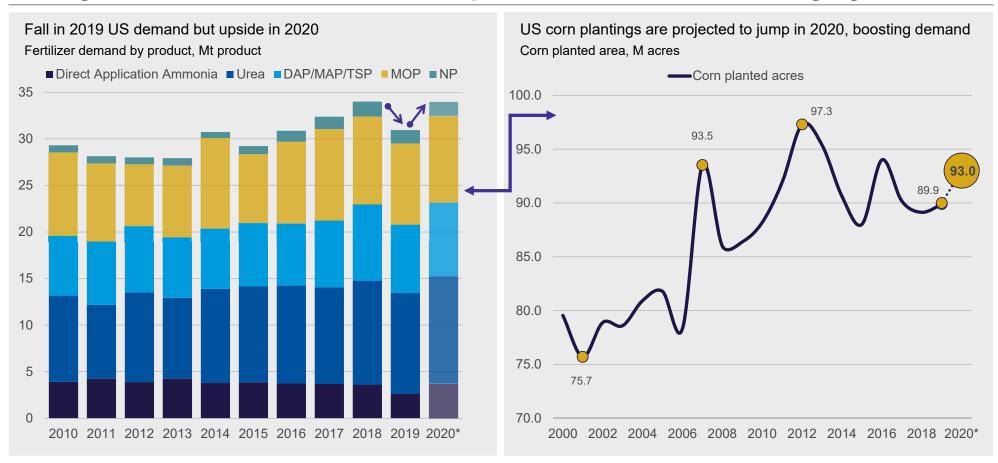


## Fertilizer demand growth good over past 18 years





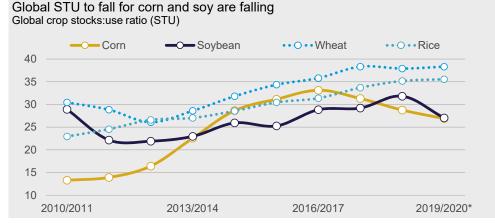
### Strong rebound in US demand anticipated in 2020 after challenging 2019

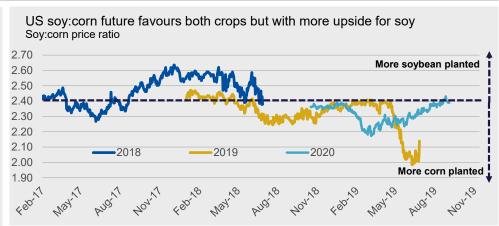


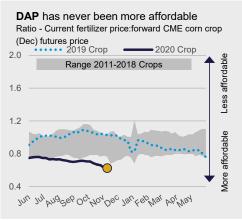
Data: CRU, USDA, \*estimate/forecast

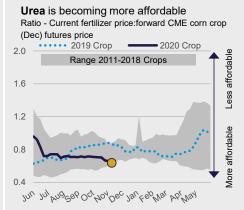


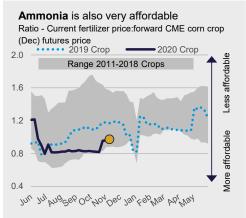
## There are supporting factors for a US rebound....

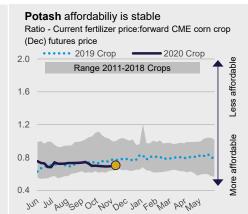






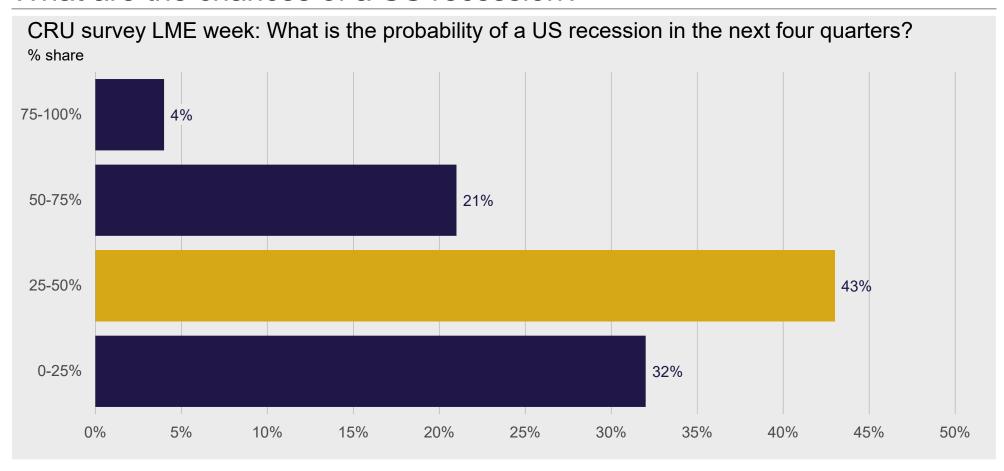








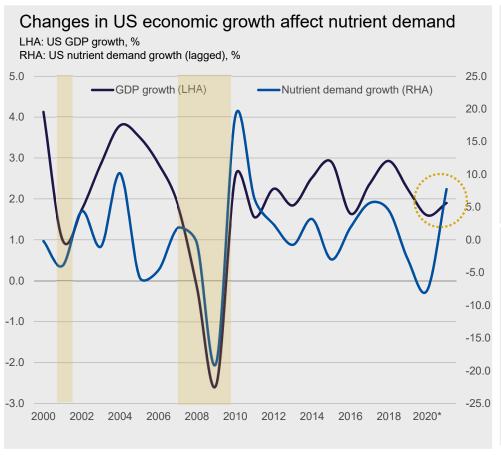
### What are the chances of a US recession?

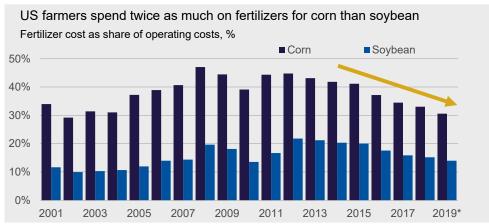


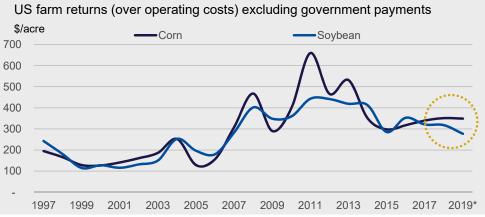




### Is an economic slowdown a downside risk for US fertilizer demand?



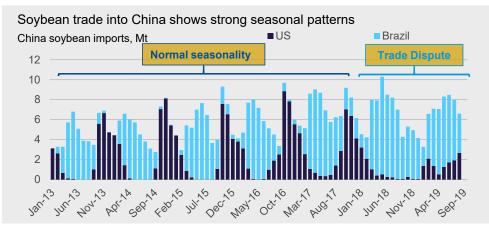


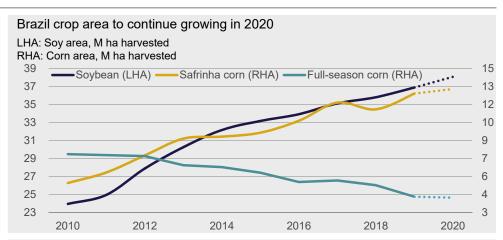


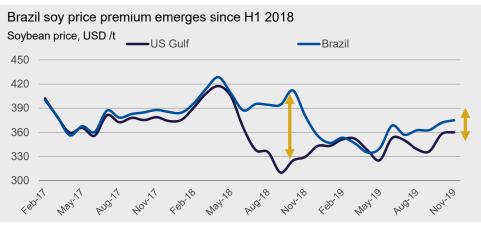
Data: CRU, USDA, \*=estimate/forecast

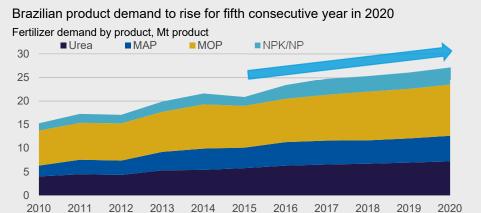


### US-China trade war bolsters Brazilian fertilizer demand



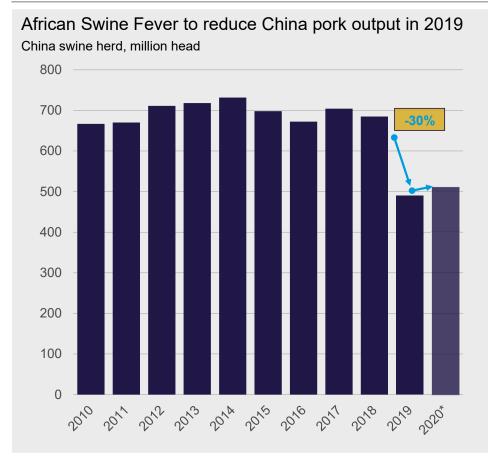




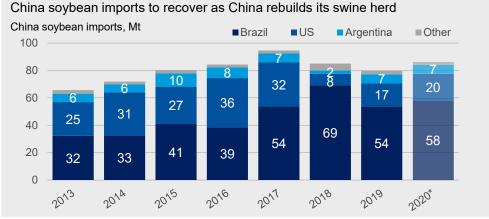




## Will there be a recovery in China soybean imports in 2020?

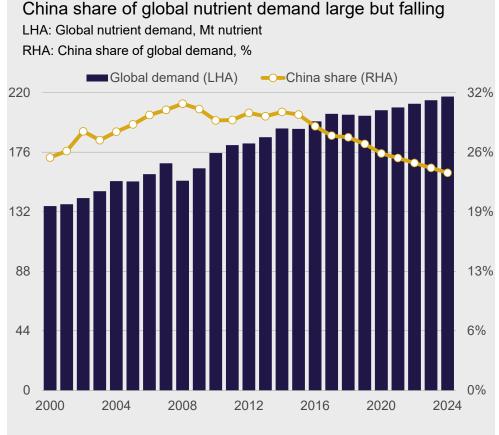








## Changes in China have a huge impact on global fertilizer demand!



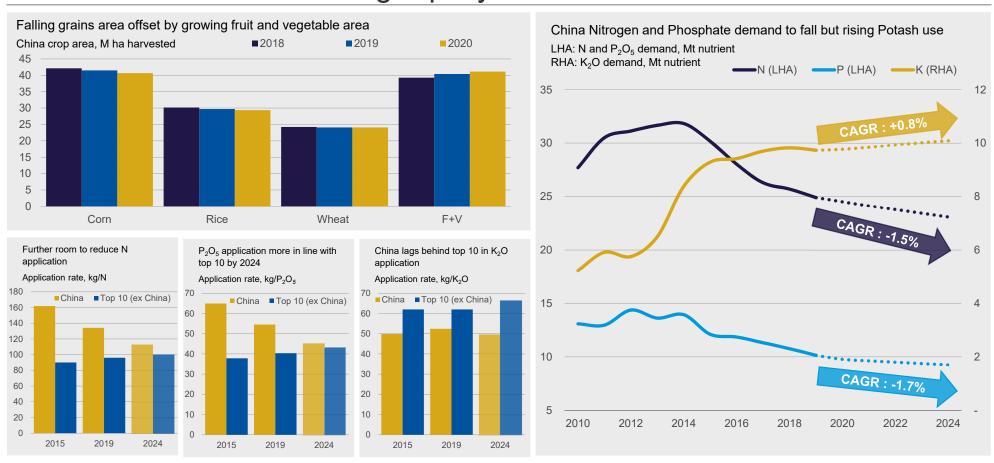
### Why is there weakness in China?

- Unsupportive crop market fundamentals.
- Fertilizer efficiency: zero growth policy and falling application rates.
- Increasing farm size and efficiency.
- Changing fertilizer practices.





## Chinese demand is evolving rapidly



Data: CRU, Chinese Ministry of Agriculture, IFA

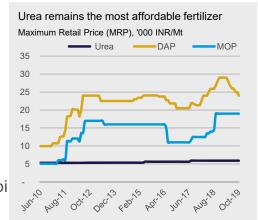


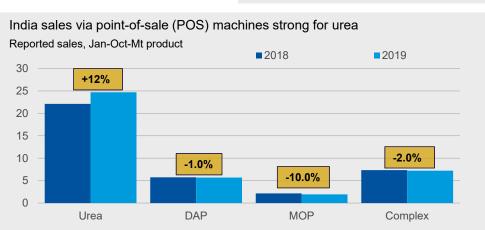


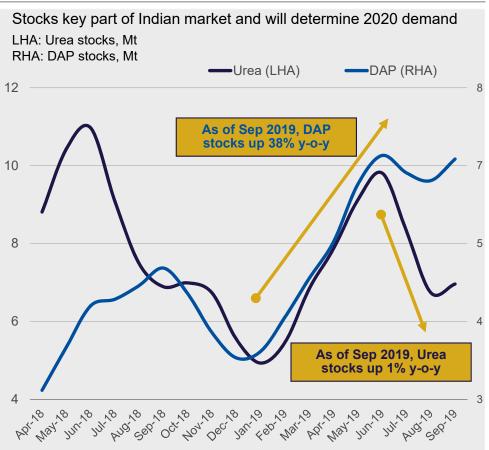
## India's love affair with urea shows no signs of slowing

#### **Key developments**

- Greater efforts to streamline fertilizer sector in recent years
- Election year
- Mixed results for product demand this year
- Late monsoon boost for Rabi season



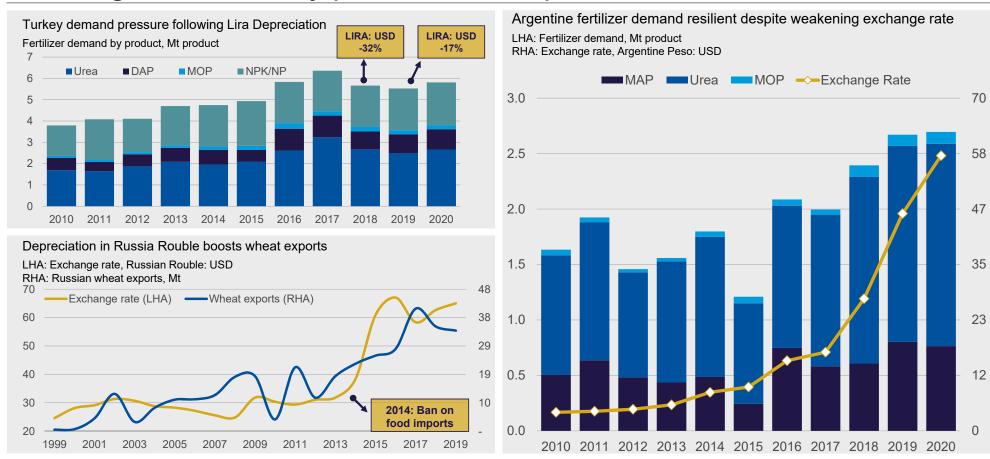




Data: CRU, FAI, India Department of Fertilizers



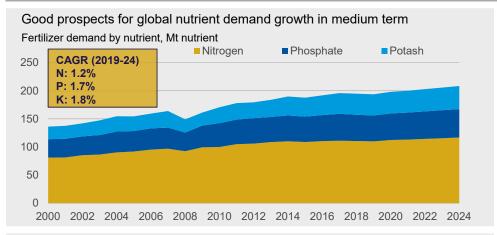
## Exchange rate volatility provides both upside and downside

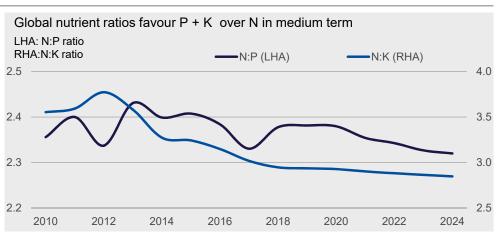


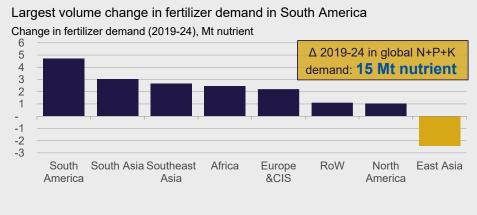
Data: CRU, Bloomberg

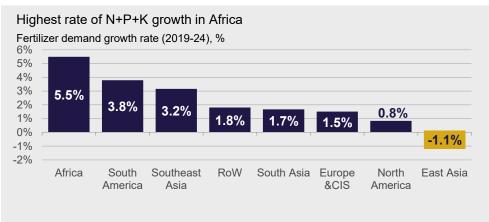


## Looking ahead to the medium term



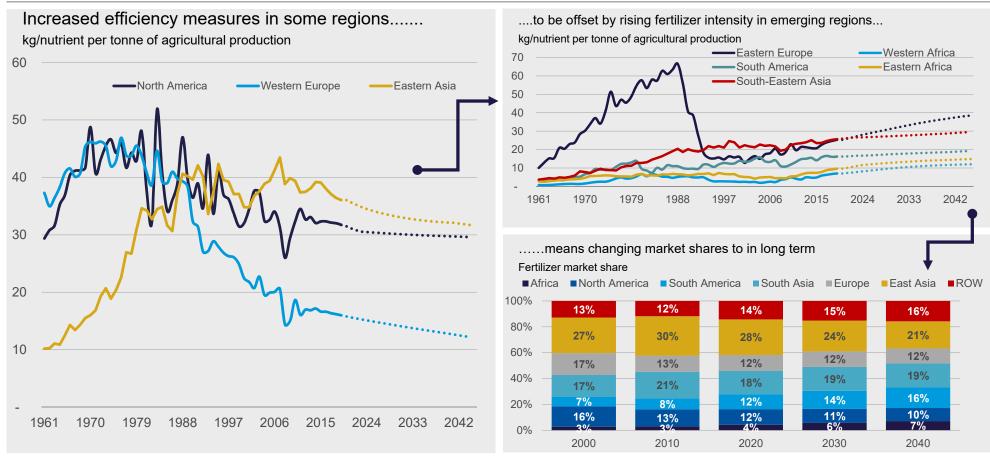








## Long term: fertilizer intensity of use underpinned by developing regions





## Summary

- Strong rebound in 2020 fertilizer demand underpinned by return of USA.
- 2020 global risks: trade war, AFS, economic downturn, weather issues.
- Ongoing weakness in China has a major impact on global demand.
- Medium Term and Long Term: market shares shifting to developing regions.







Thank you for listening!