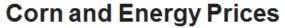


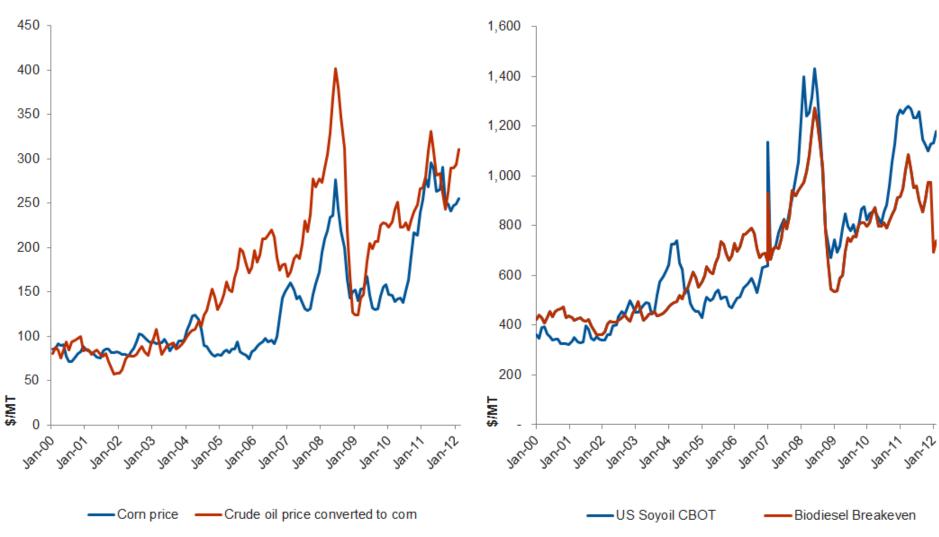
Growth in Demand and Trade



Energy and Ag Products Remain Closely Connected

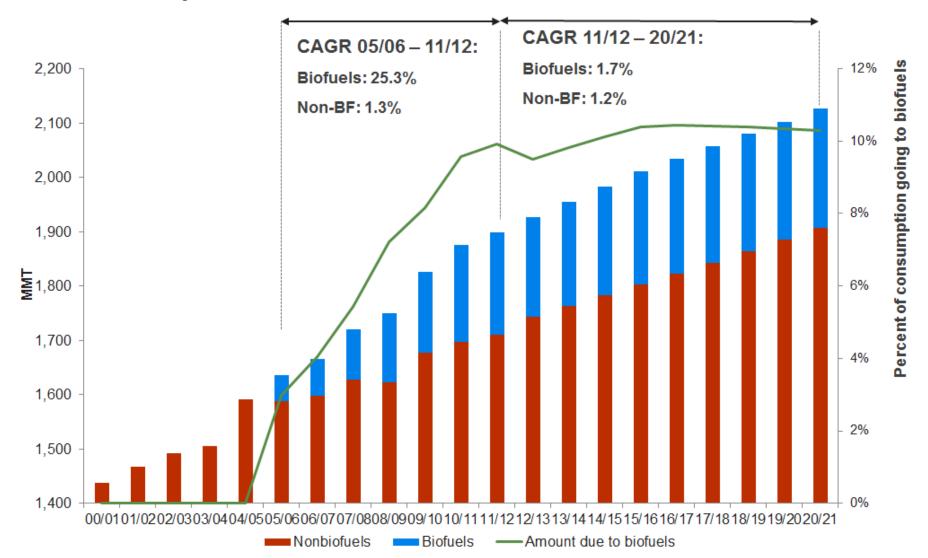


Veg-oil and Energy Prices



Strong Demand Growth Led by Biofuels

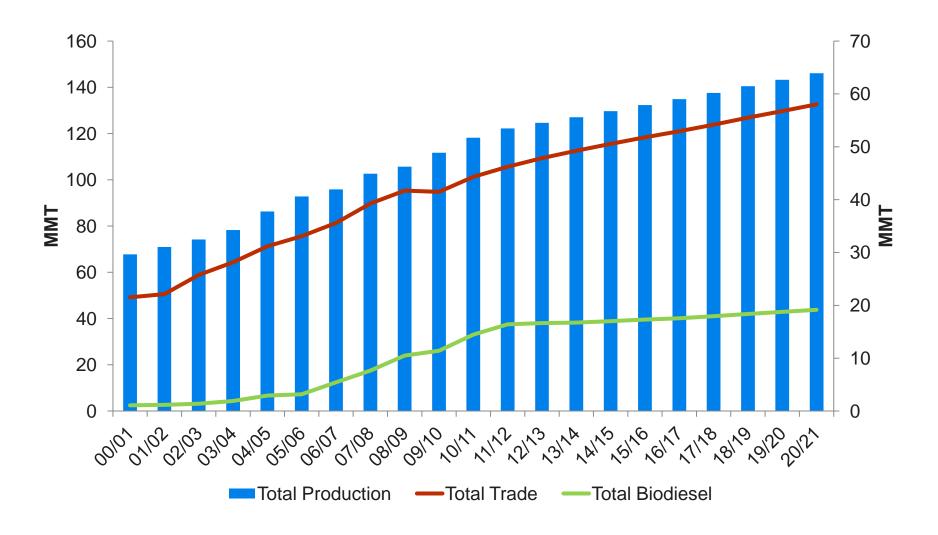
Corn, Wheat, Soy & Products, Canola & Products, Palm





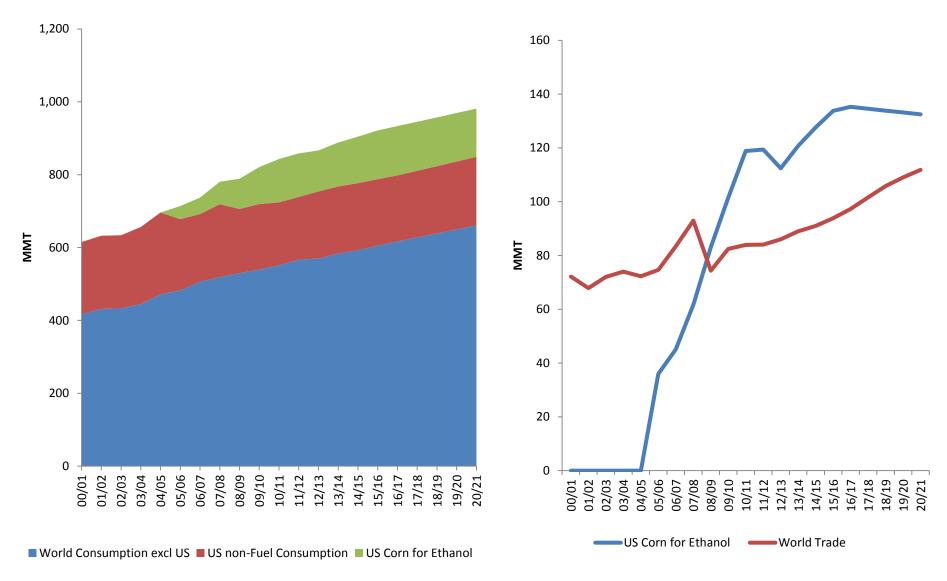
Bio-diesel demand is 40% of world trade in veg Oils

Soy, Canola, Palm Oils



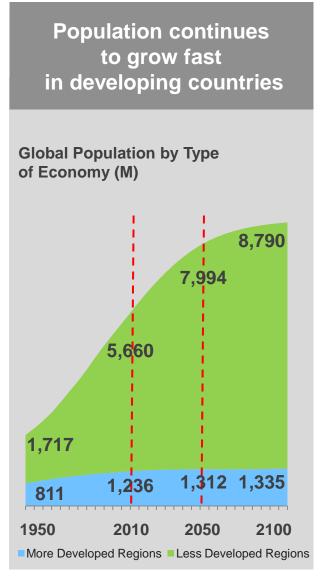


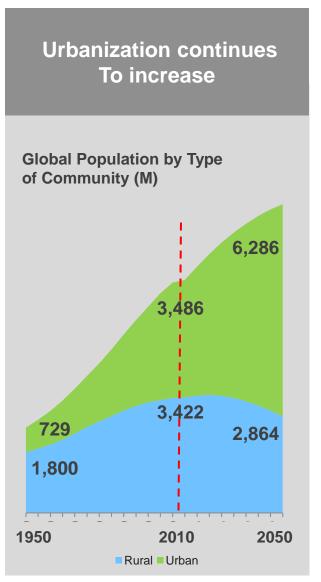
US Corn for Ethanol Use Surpasses Global Corn Trade

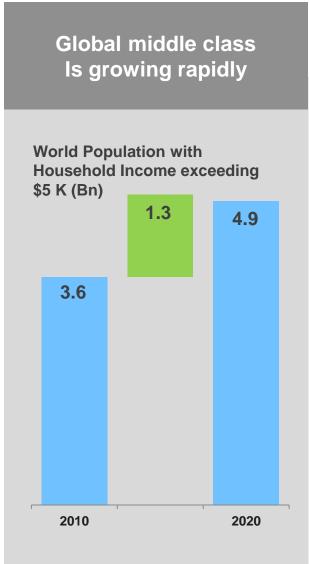




Future Growth In Demand Is Mostly Driven By Food Needs





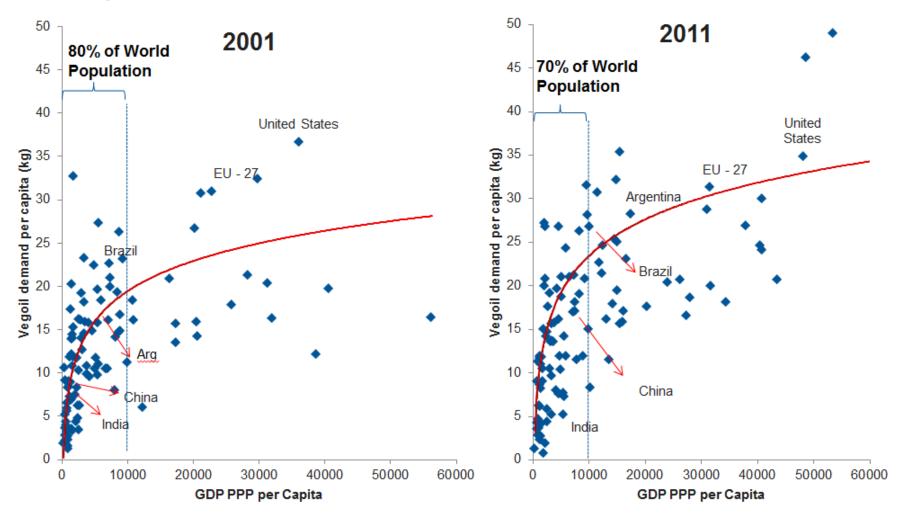


Source: Population data from UN State of the World Population 2011; Middle class data from Bain & Co



Income & Vegetable Oil Consumption Rise Together

Vegoil Income Elasticity PC - Relationship between per capita food veg-oil consumption and income



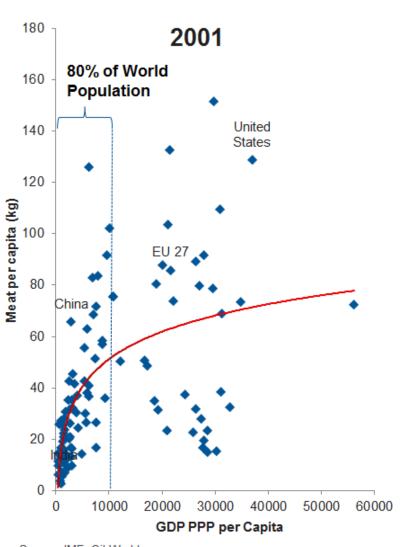
NATIONAL GRAIN AND FEED ASSOCIATION, MARCH 2012

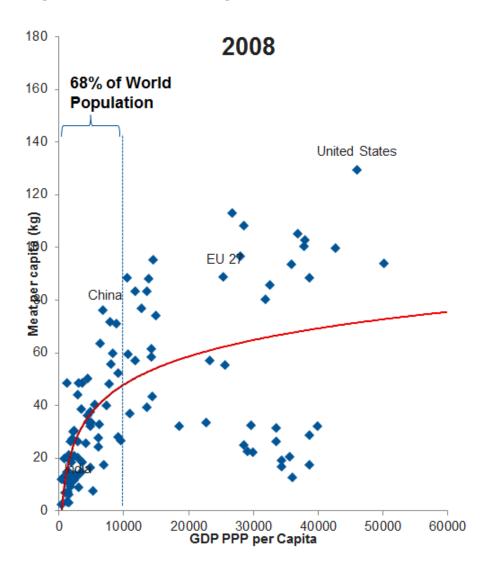


Source: IMF, Oil World

Same for Animal Protein

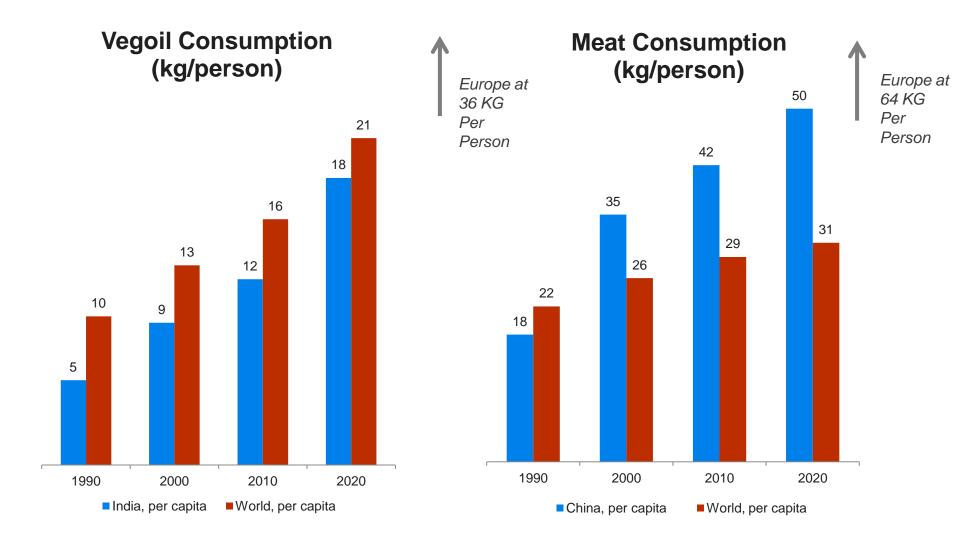
Relationship between per capita animal protein consumption and income





Source: IMF, Oil World

Which Means the Consumption Gap Narrows



Source: USDA & UN Population Division, USDA, LMC, Private Estimate



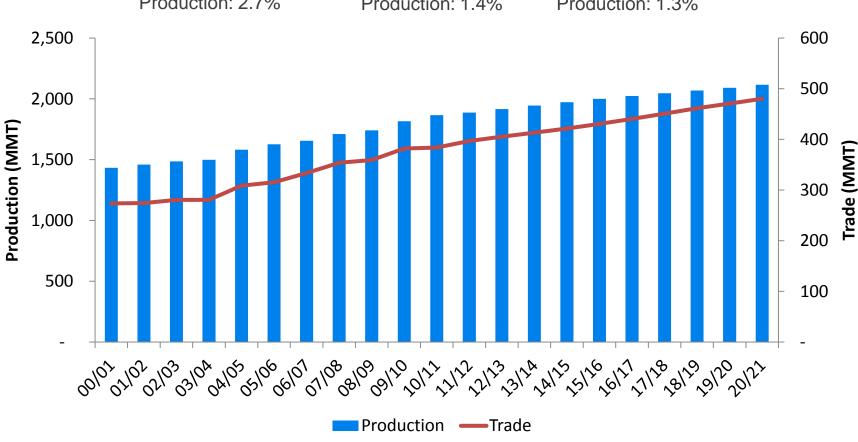
Demand Growth Drives Large Increase in Trade

Corn, Wheat, Soybeans & Products, Canola & Products, Palm

CAGR 2005-2010: CAGR 2010-2015: CAGR 2010-2020:

Trade: 4.0% Trade: 2.3% Trade: 2.3%

Production: 2.7% Production: 1.4% Production: 1.3%





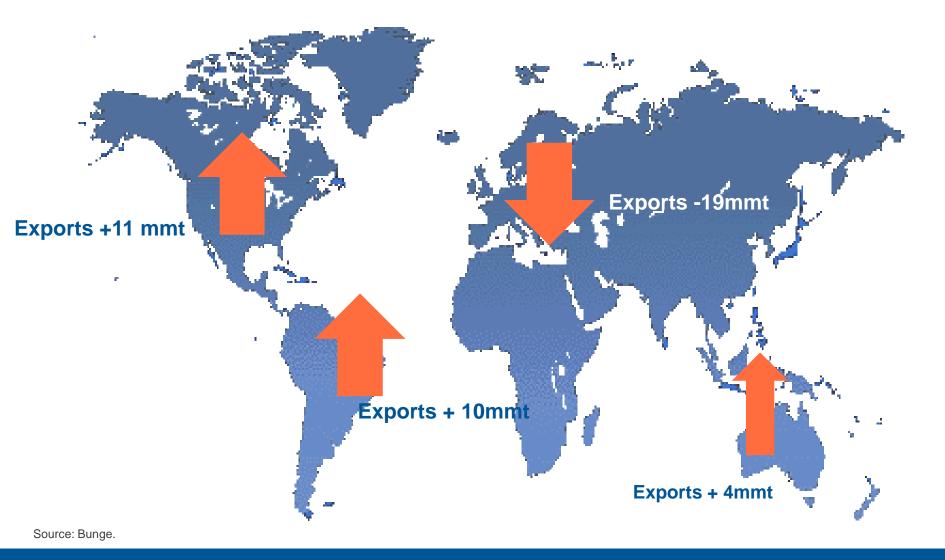
2007/2008 Australian and Black Sea Droughts



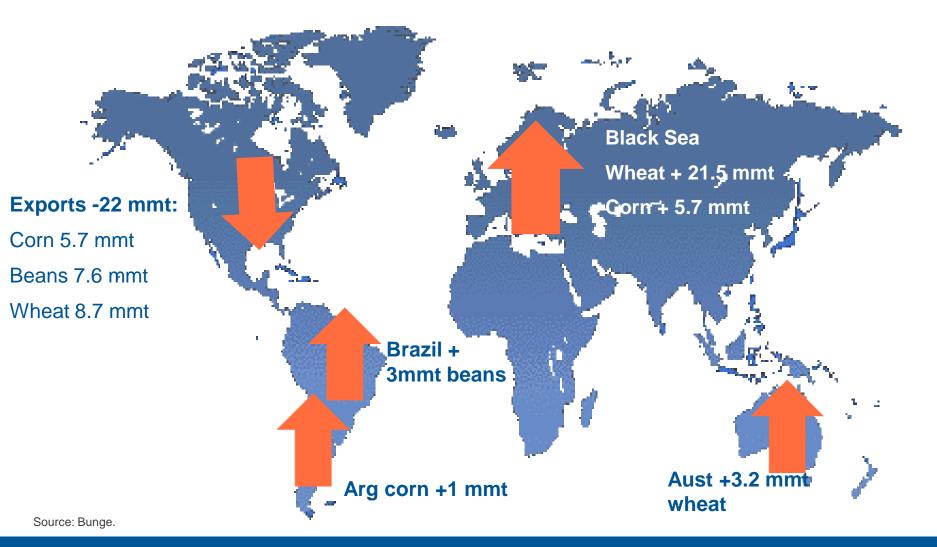
2009 Argentina Soybean Drought



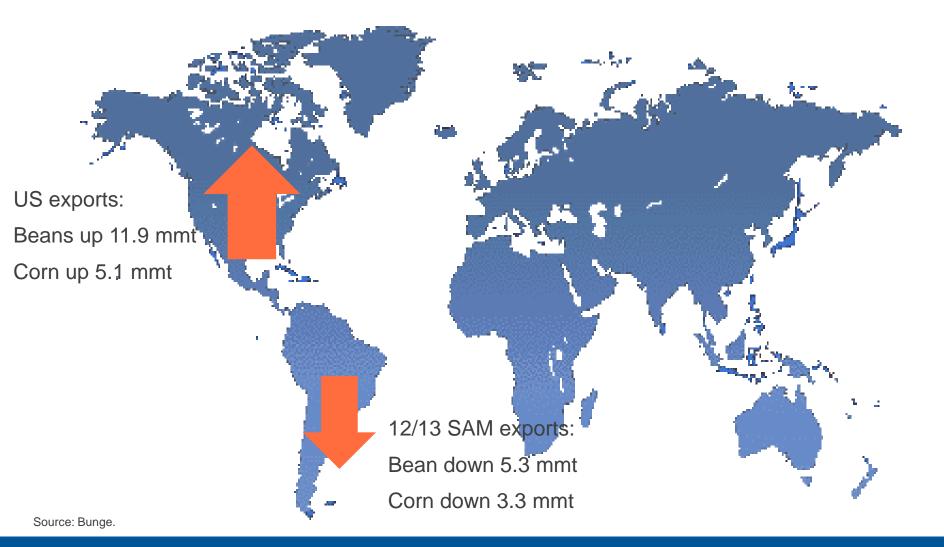
2010 Black Sea and EU Drought



2011 US Corn Drought and Excellent Global Crops

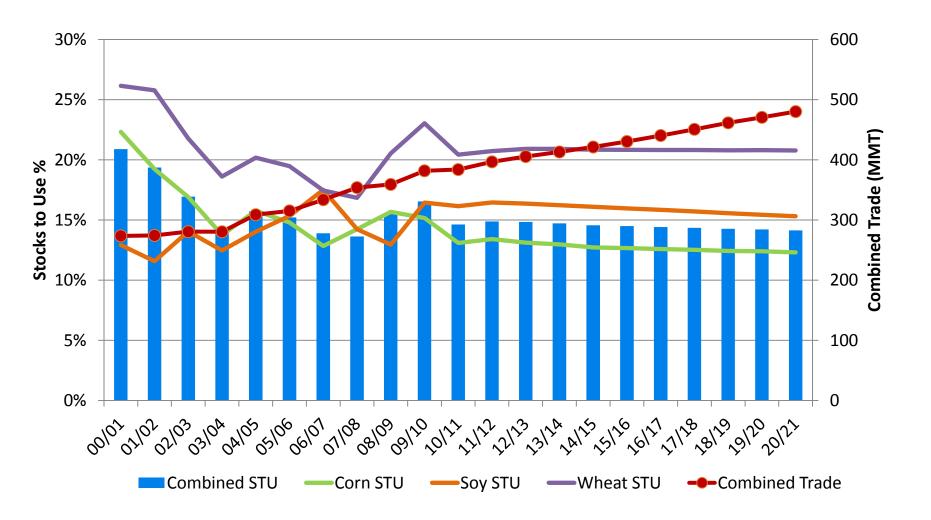


2012 SAM Drought



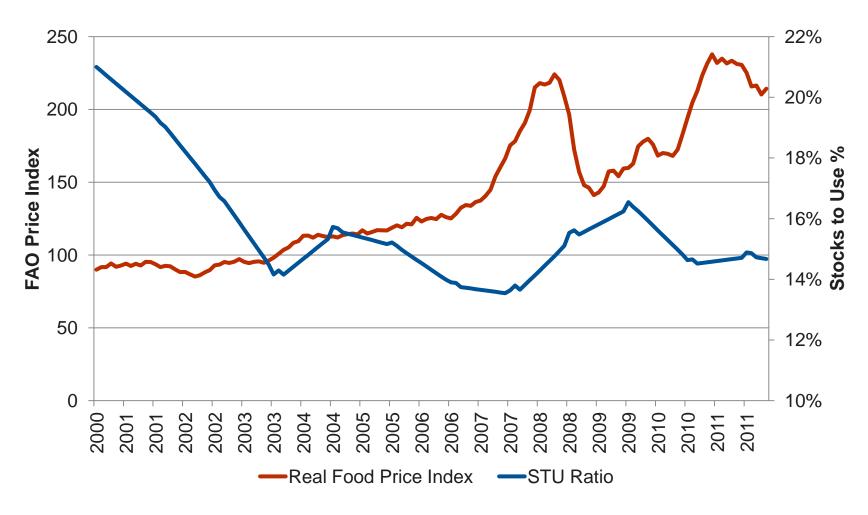
World Stocks-to-Use Ratios Remain Historically Tight

Corn, Wheat, Soybeans & Products, Canola & Products, Palm

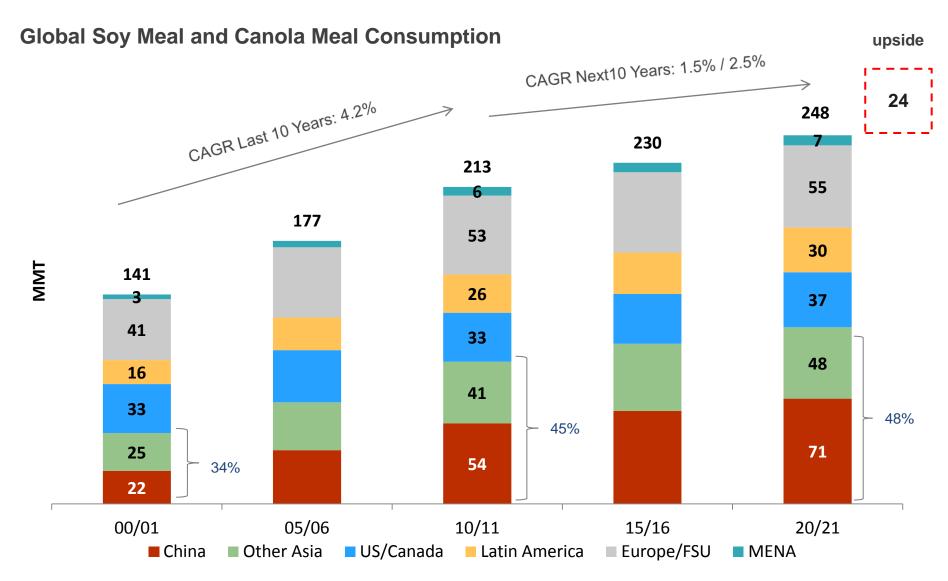




Food Prices Have Become Increasingly Volatile as Stocks-to-Use Ratios Have Tightened



Proteins and Vegoils Lead Global Consumption Growth

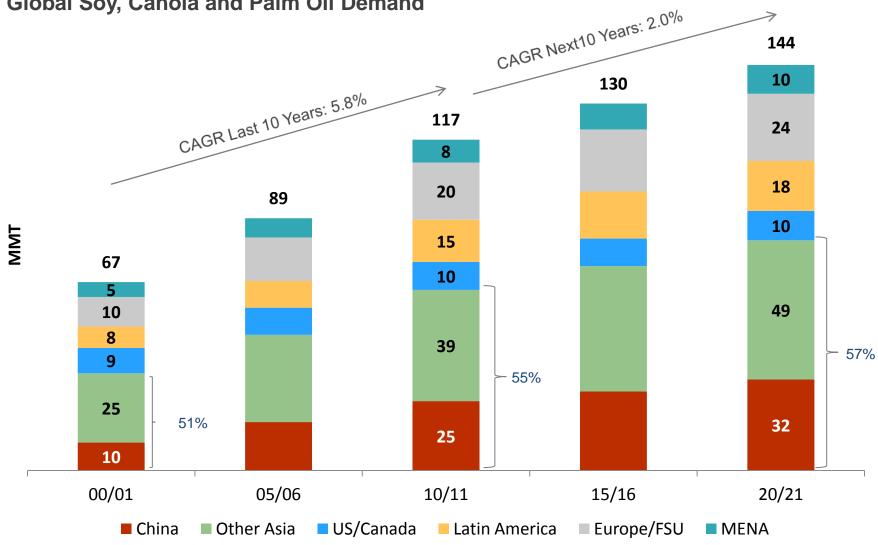


Source: Food and Agriculture Policy Research Institute, Iowa State University, LMC, Private Estimate.



Proteins and Vegoils Lead Global Consumption Growth

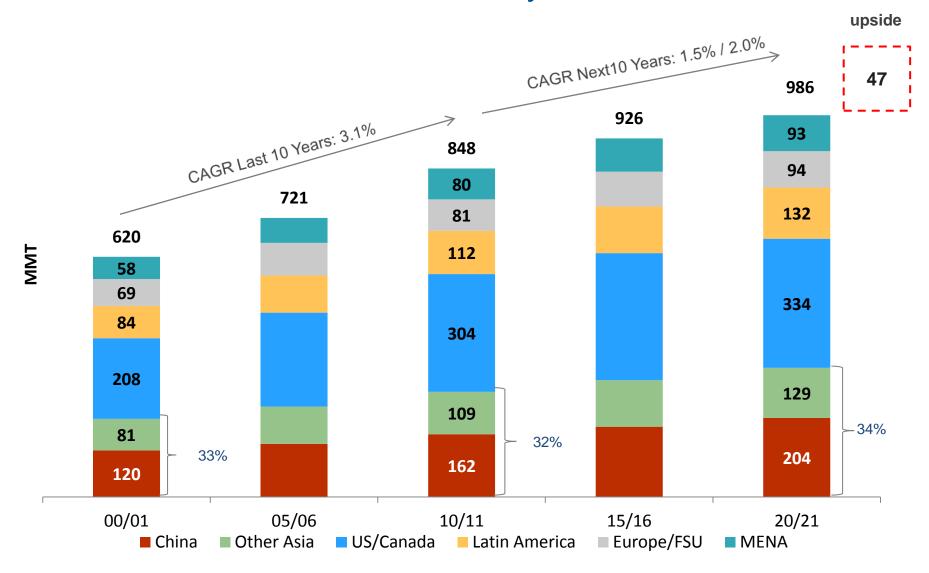




Source: Food and Agriculture Policy Research Institute, Iowa State University, LMC, Private Estimate.



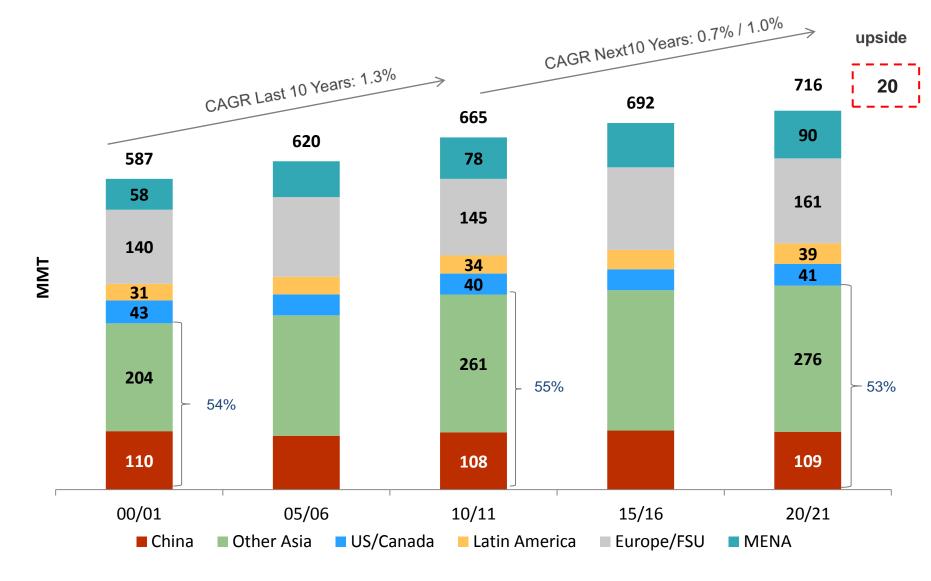
Corn Demand Growth Driven by US Ethanol



 $Source: Food \ and \ Agriculture \ Policy \ Research \ Institute, \ Iowa \ State \ University, \ Private \ Estimate.$



Modest Growth in Wheat Consumption

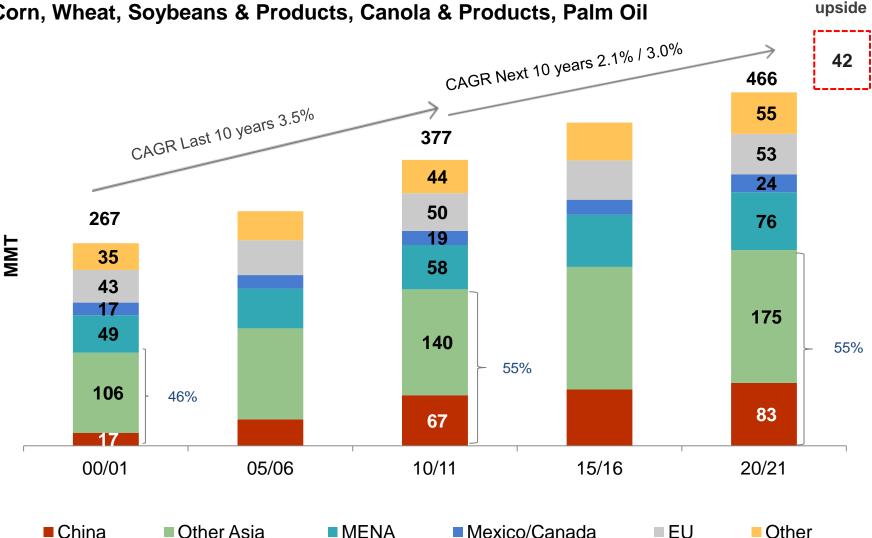


Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate.



Resulting in Strong Growth in Global Trade

Corn, Wheat, Soybeans & Products, Canola & Products, Palm Oil

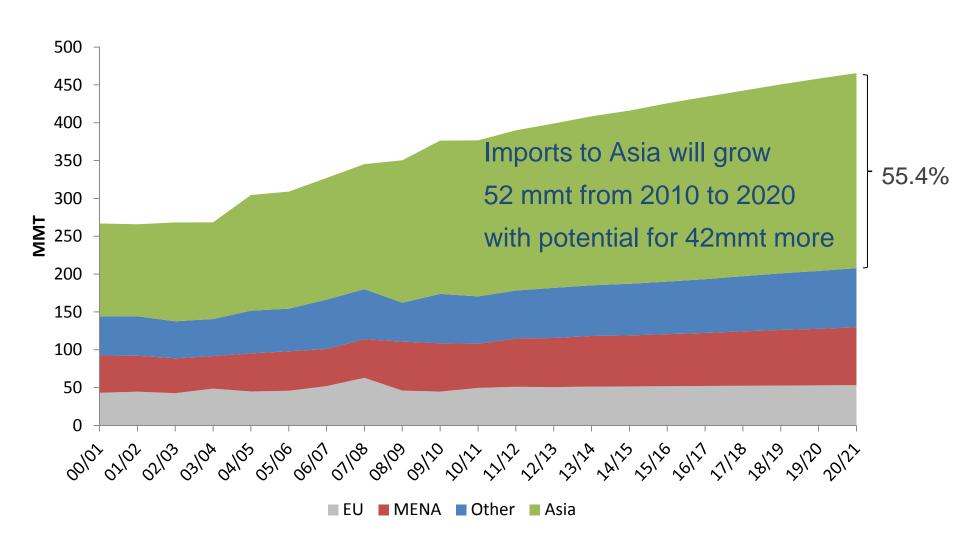


Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate



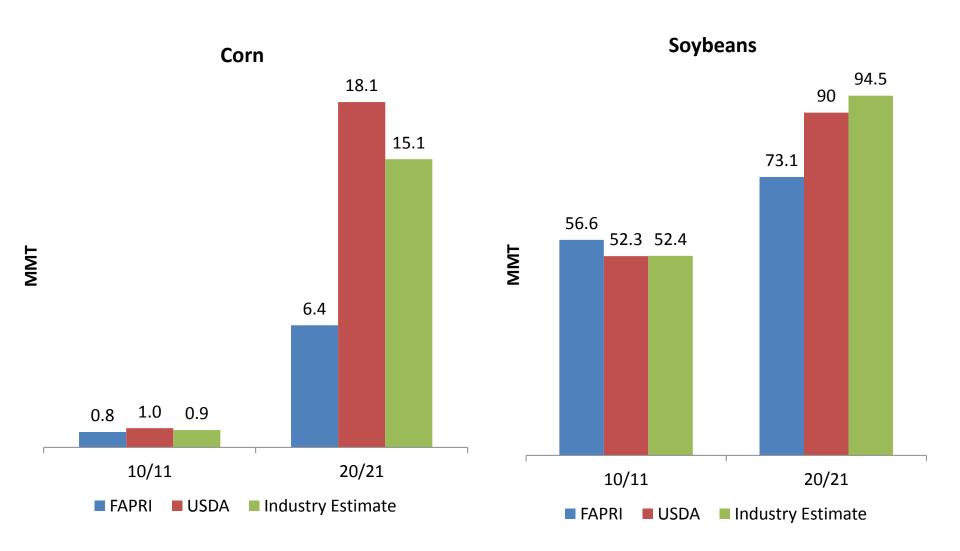
Asia Accounts For 57-65% of Trade Growth

Corn, Wheat, Soybeans & Products, Canola & Products, Palm Oil



Source: Food and Agriculture Policy Research Institute, University of Iowa.

China is the Wildcard – Range of Estimates

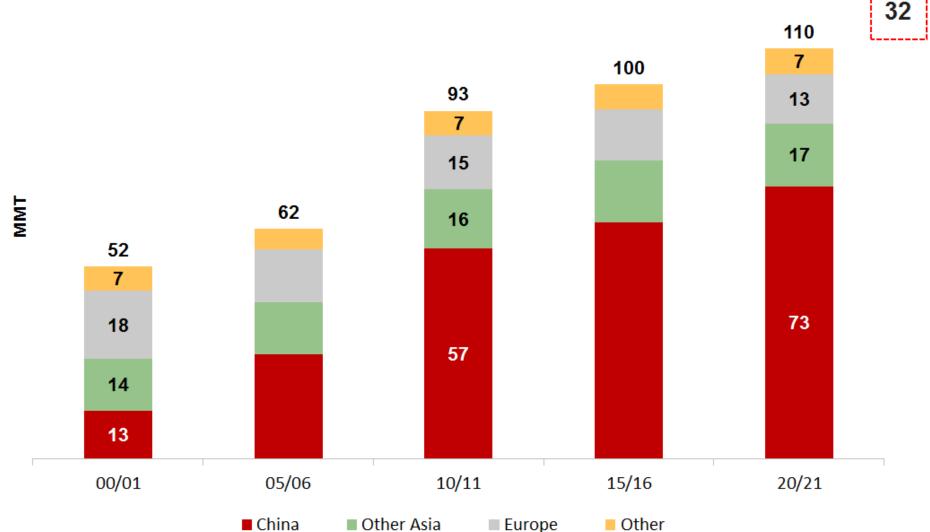


Source: Food and Agriculture Policy Research Institute, Iowa State University, USDA, Industry Estimate.



Growth in China Soybean Imports Will Continue

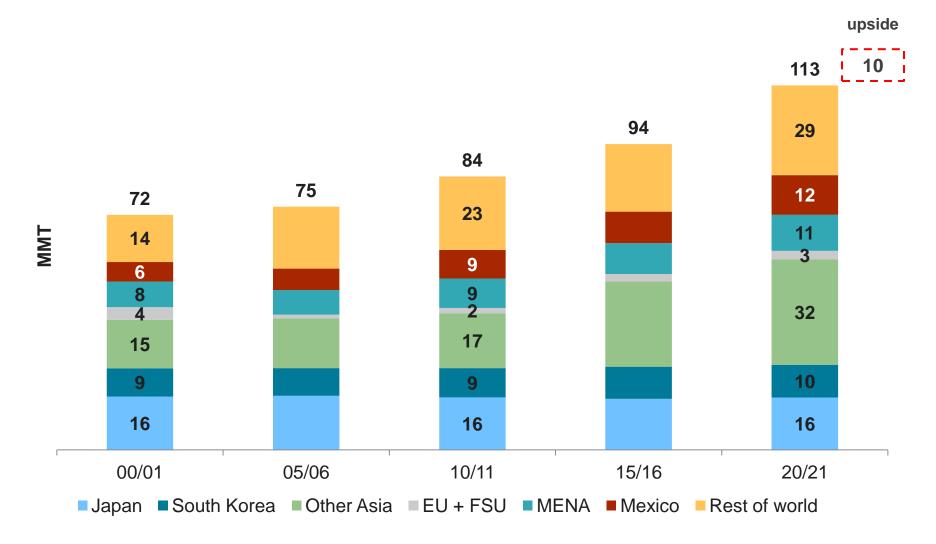




Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate

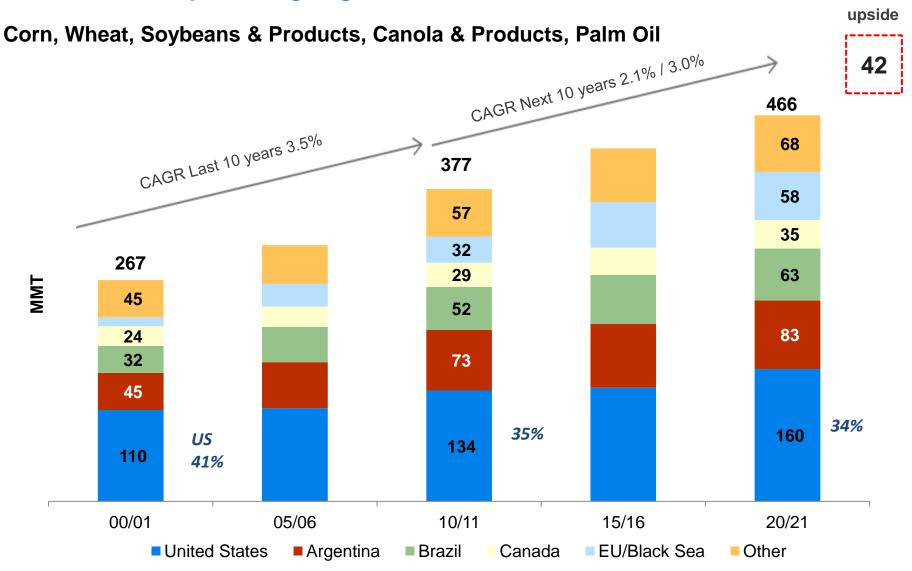


Import Demand for Corn Is Also Led by Asia



 $Source: Food \ and \ Agriculture \ Policy \ Research \ Institute, \ Iowa \ State \ University, \ Private \ Estimate.$

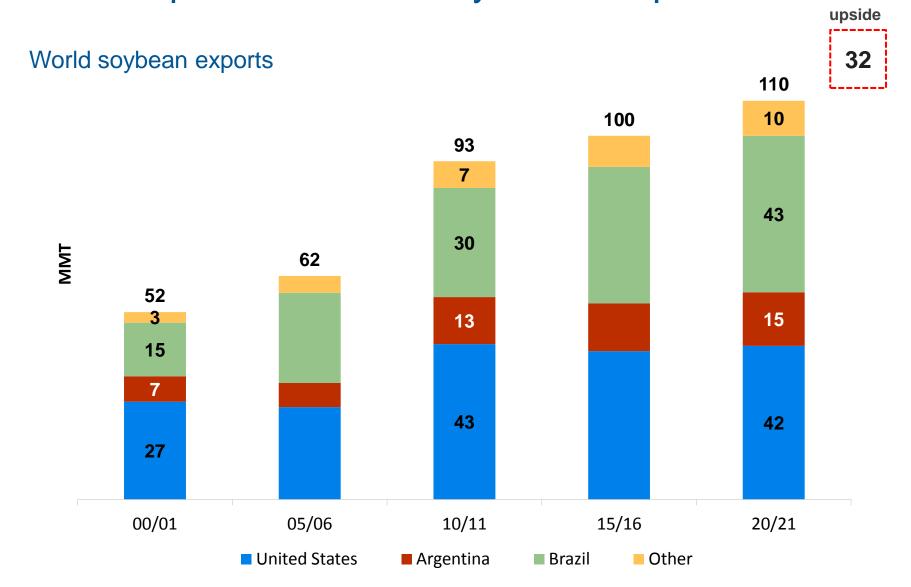
US is Barely Hanging On to Share of Global Trade



Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate



Brazil Captures Most of Soybeans Export Growth

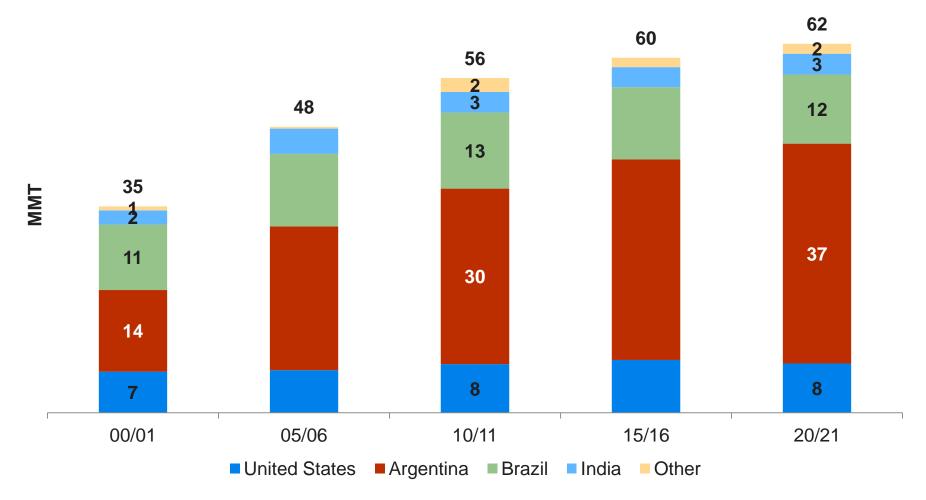


Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate



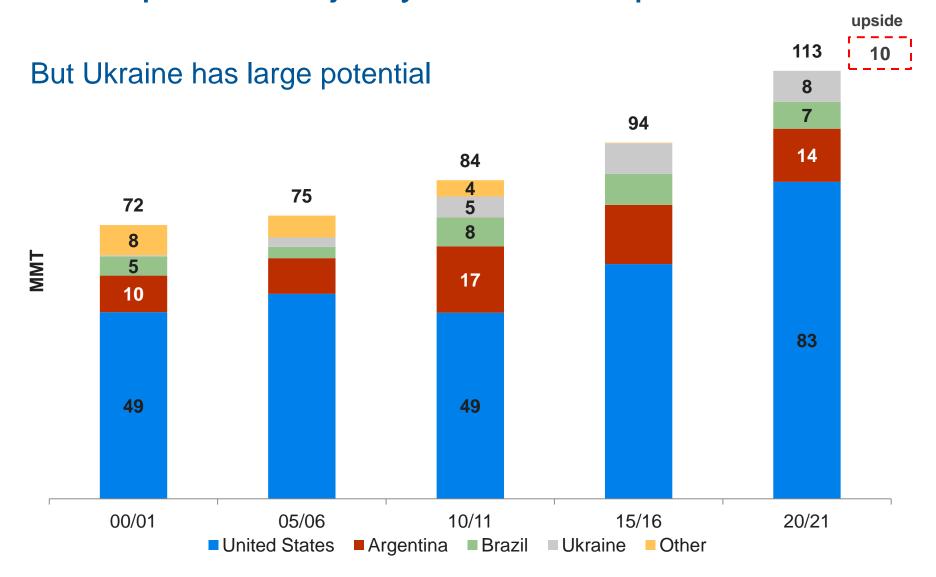
Argentina Takes over 50% of Global Trade in SBM

World Soymeal Exports





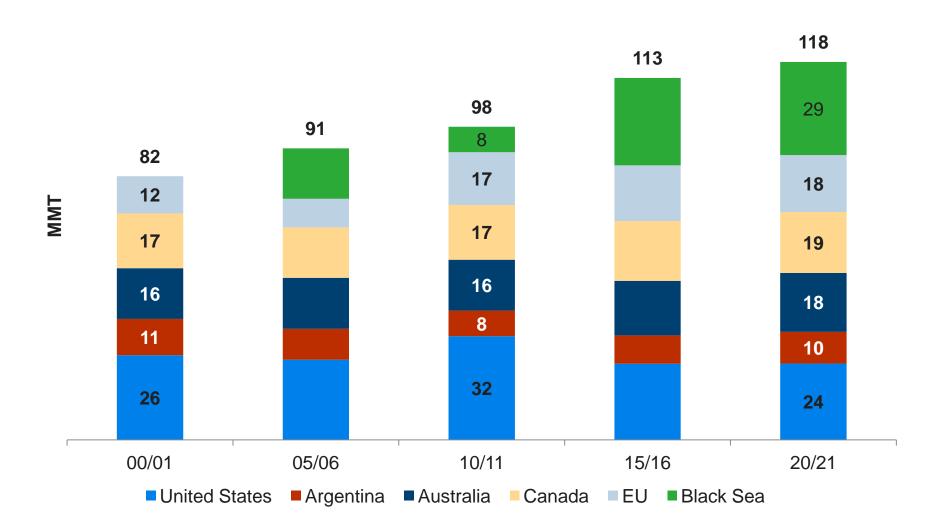
US Captures Majority of Corn Export Growth



Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate



Black Sea Supplies Growing Wheat Trade



Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate.



Global trade will stay very dynamic

Global trade grows to almost 500miot by 2020

About 25% of global consumption

More origins supply global trade

- Black Sea Region and So America
- Potentially risk reducing as production risk is spread out
- But some origins are more volatile both in climate and politics

Very small regional supply disruptions create shifts in trade flow

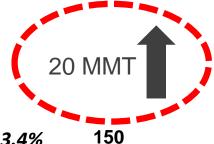
 Shifts above 10miot will push "receiving origins" to peak capacity during concentrated periods

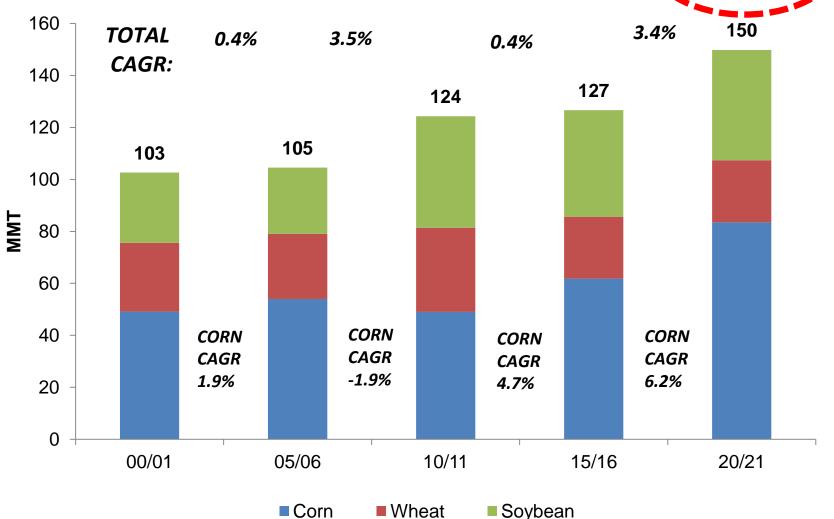
The cause of market volatility is the underlying supply disruption and a continued very tight global balance

Free trade is essential to balance markets



Resulting Impact on US Exports



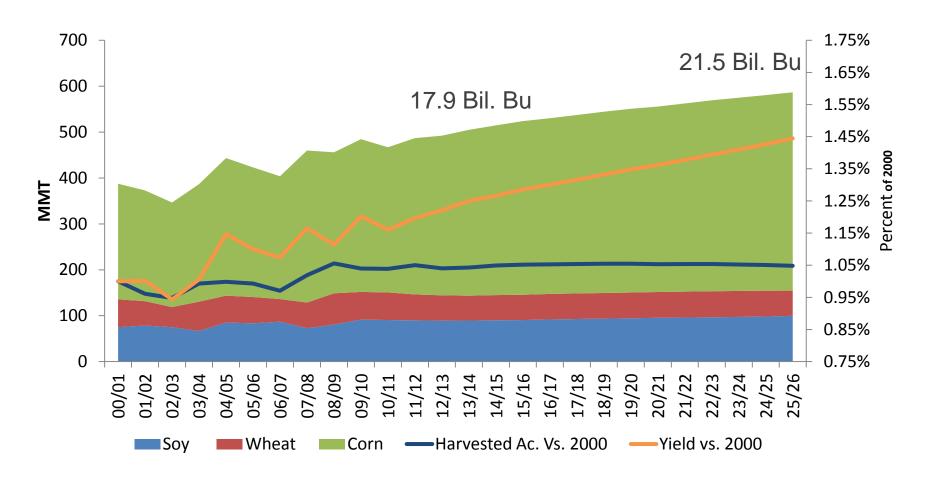


Source: Food and Agriculture Policy Research Institute, Iowa State University, Private Estimate



Yields Advance to Meet Demand for US Crops

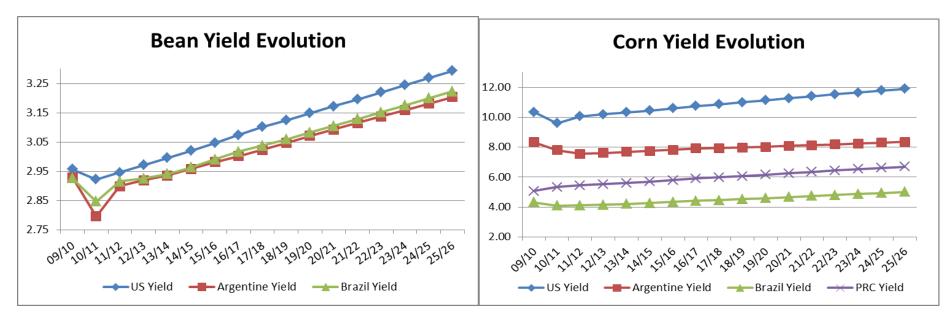
Corn, Wheat, Soybeans



Yields advance by 44%, Acres by 5%



Yield Gap In Corn Continues



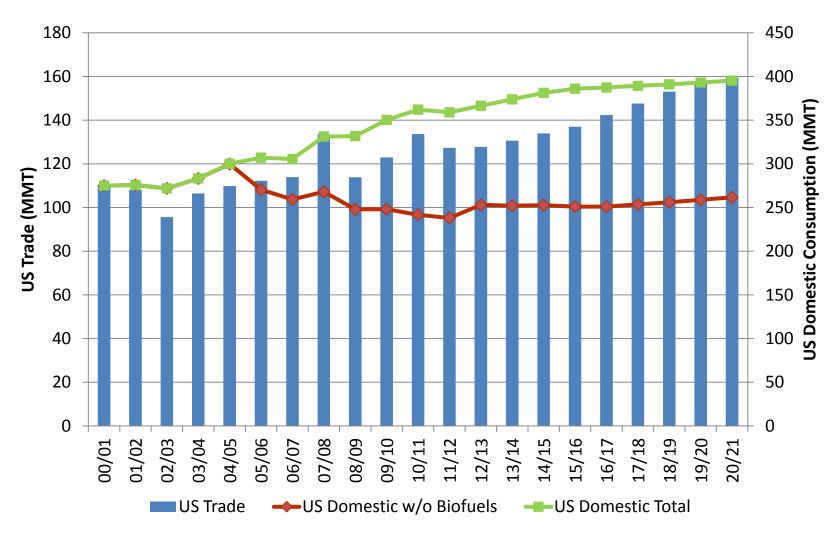
- Americas bean yields are similar
- Yield gap mostly closed

- US corn yields remain superior
- Quality of land
- Technology and capital intensity
- Over time others might catch up



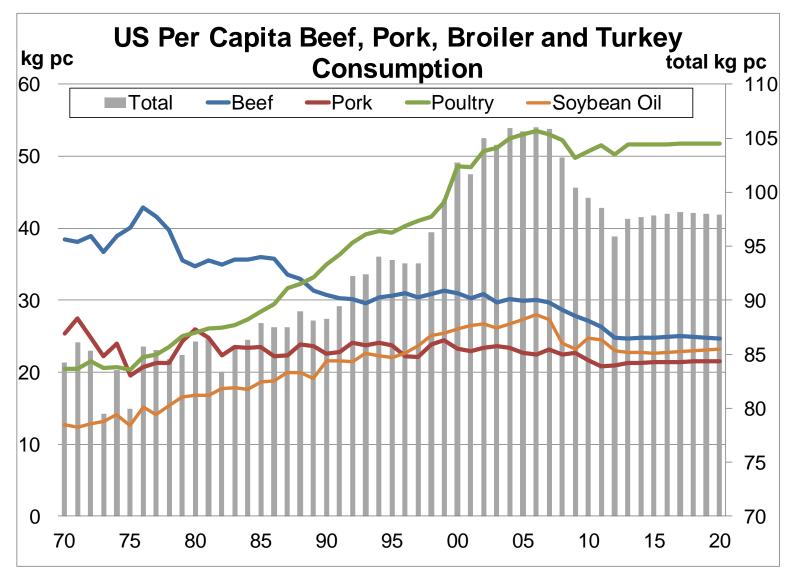
US Export Growth Potential is Bigger than Domestic

Corn, Wheat, Soybeans & Products



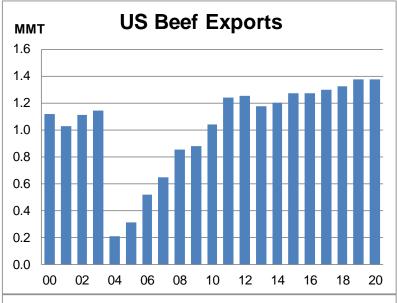


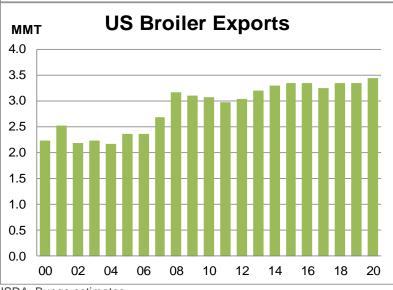
US Per Capita Food Consumption has Peaked?

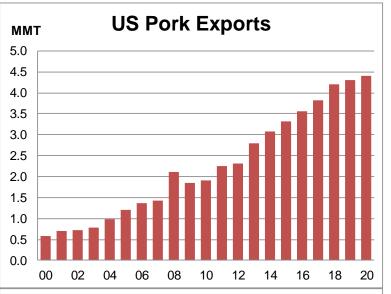


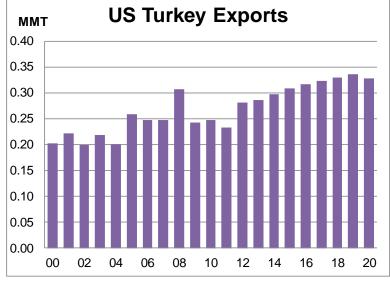
Source: USDA, Bunge estimates

But US Protein Exports Set Record in 2011



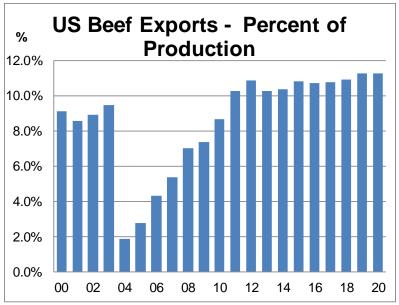


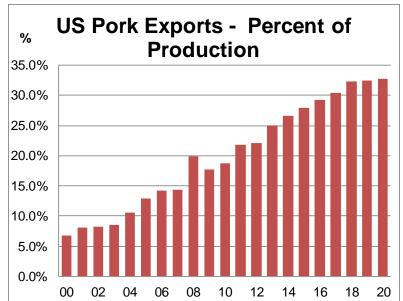


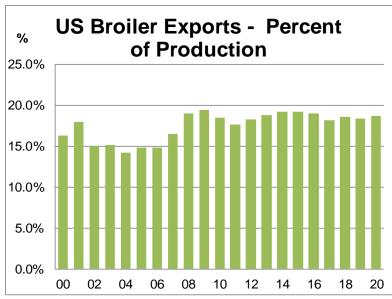


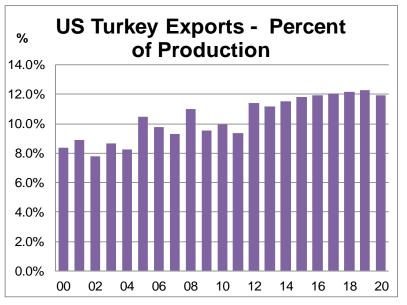
Source: USDA, Bunge estimates

More of US Meat Protein Consumed Abroad

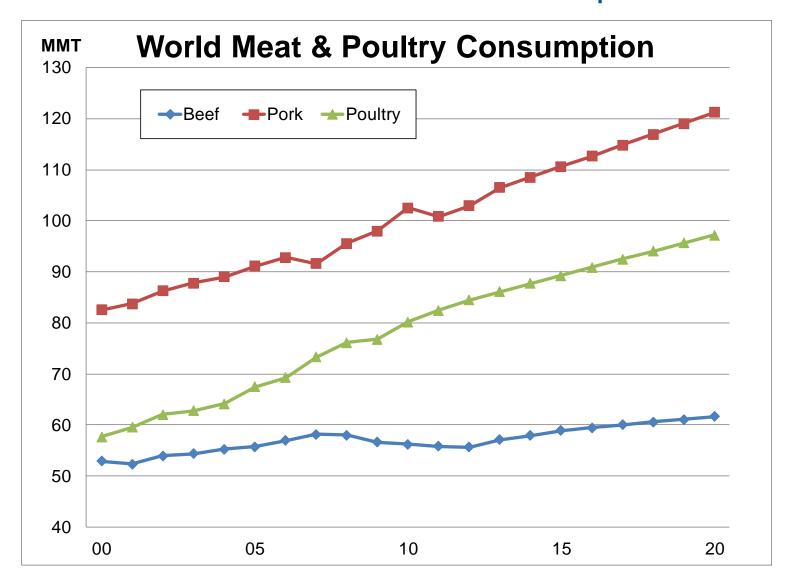






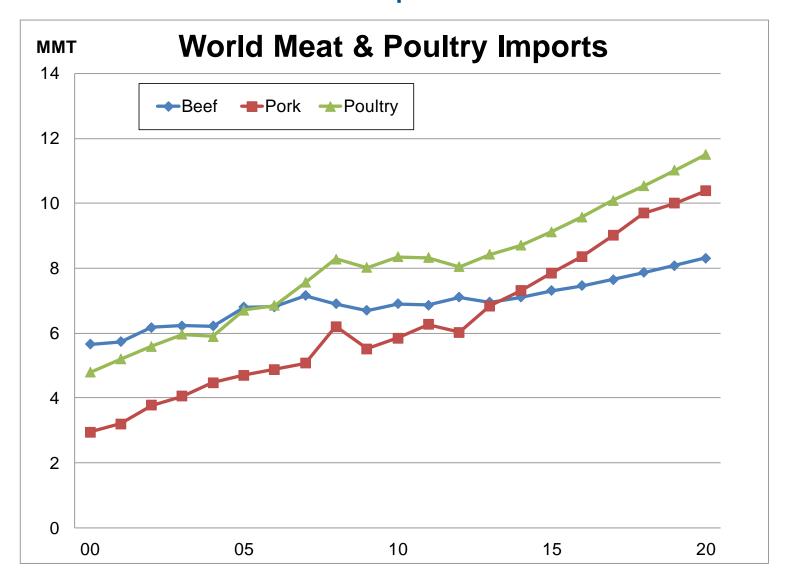


Pork and Chicken Lead Global Consumption Growth



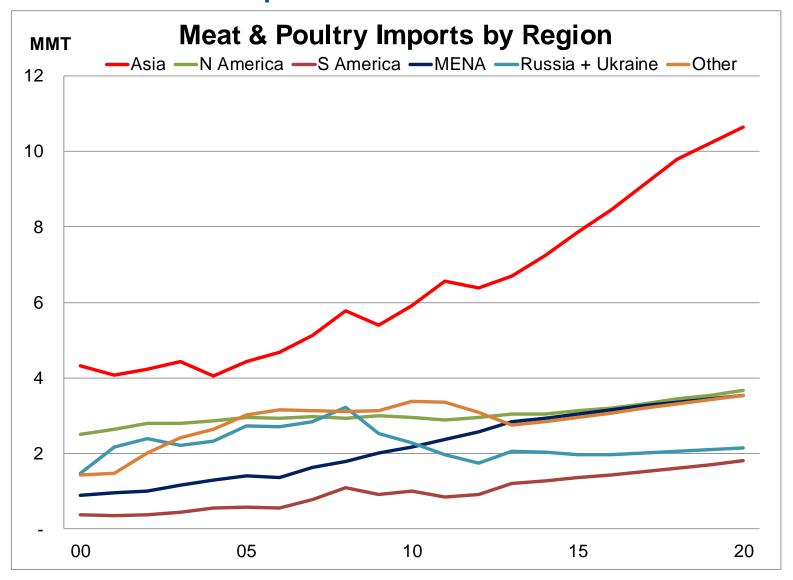
Source USDA, Bunge estimates

Pork and Chicken Lead Import Demand Growth

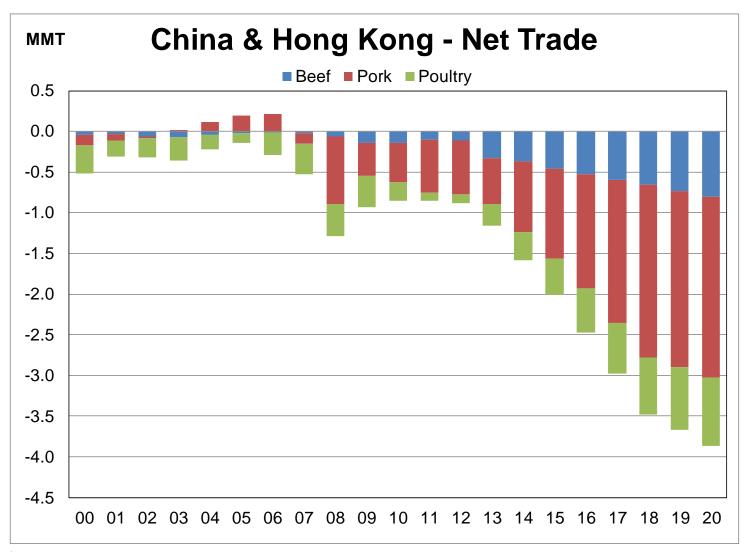


Source USDA, Bunge estimates

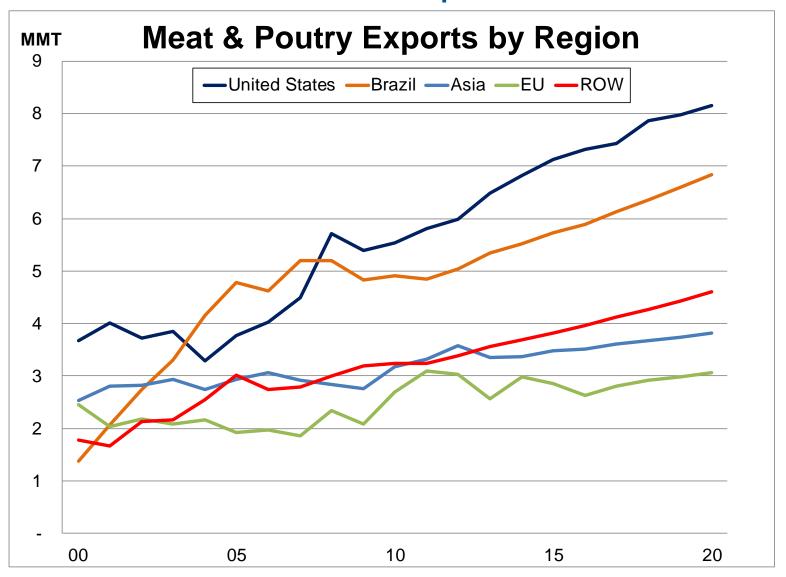
Asia & MENA Expected to Drive Trade Growth



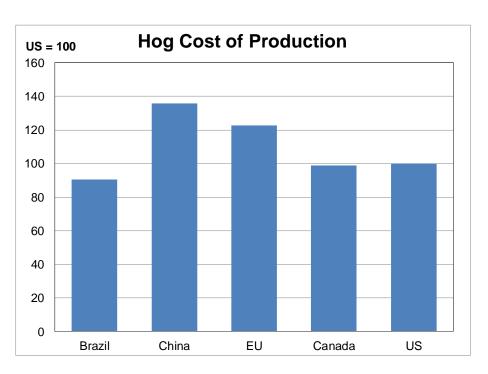
China Becomes a Structural Meat & Poultry Importer

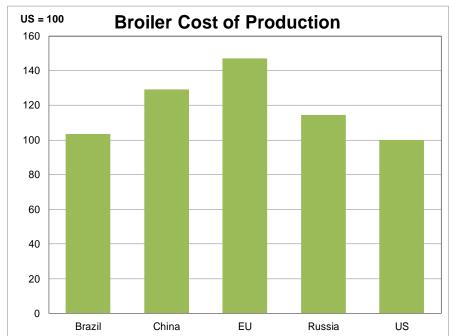


The US and Brazil Lead Export Growth



Cost of Production Favors Production Growth in the US and Brazil

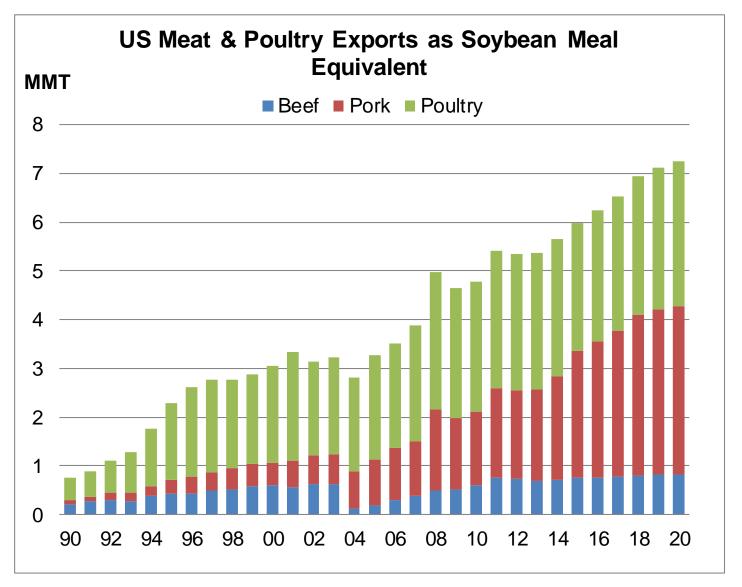




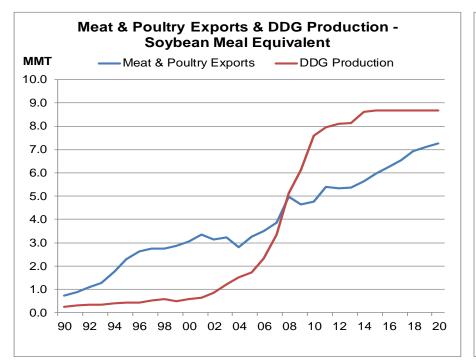
Source Bunge estimates

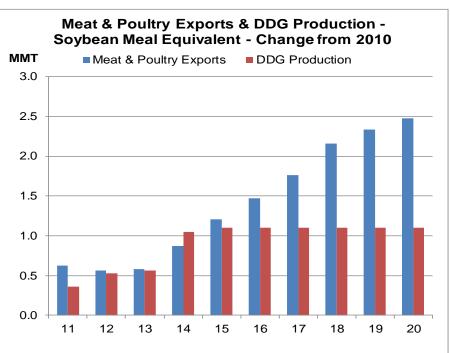
45

Meat Exports Create Significant Protein Meal Demand



Meat Exports Growth Begins to Offset Loss of SBM Demand Due to DDGs





Assumes 1 pound of DDGs equals 0.23 pounds of soybean meal (USDA, October 2011)

Source USDA, Bunge Estimates

Conclusions

World trade will expand by over 100miot next 9 years

- US can maintain its share of trade
- And significantly grow added value exports
- Total export potential is double that of domestic

Farming is profitable everywhere

- Flows move quickly to cheapest origin
- Global consumers are more flexible in formulation
- There are fewer if any captive customers

We should be more focused on promoting trade

- Trade facilitation FTAs, and SPS implication private and Govt
- Tight coordination on Biotec introductions
- Maintain superior export infrastructure

Source: Food and Agriculture Policy Research Institute, Iowa State University.

