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Global Trade, Government & Public Affairs at the Cusp of Trade & Science



## Trade: Then and Now

- Demystify Trade: A Game for Everybody
- NTBs and the <u>Continuing</u> Rise in Importance of Food Safety Professionals
- Global Trade Negotiations:
  - Doha
  - Trans Pacific Partnership (TPP)
  - Trans Atlantic Trade & Investment Partnerships (TTIP)
  - China
- Traceability and Transparency
- VUCA: The New Normal



<sup>+</sup> THEN: 1988



### U.S. Trade

- Making, Exporting Products
- Regional Markets
- Tariffs
- High Transport Costs
- Uncertain Quality
- Slow Turnaround



# <sup>+</sup> NOW: 2013











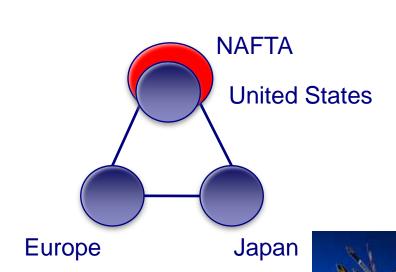
### U.S. Trade

- Combining Ingredients
- Global Markets
- Non-tariff Barriers
- Low Transport Costs
- Relative Quality
- Quick Turnaround

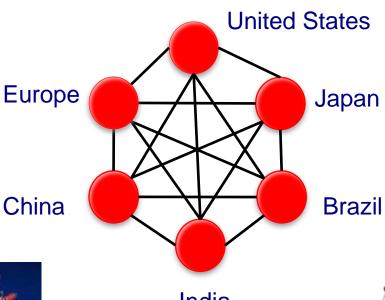


# \*Complexity of Global Trade





#### NOW: 2013

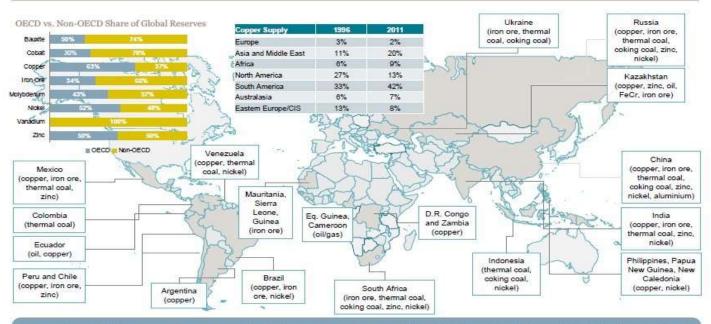








#### Emerging markets dominate global reserves of key commodities



Increasingly, frontier geographies are where the best reserves of key commodities globally are located. In addition to having significant absolute volumes of reserves these locations often also contain the highest quality reserves, whether measured by grade or cost of

Source: Bloomberg, Global reserves source: U.S. Geological Survey Mineral Commodity Summaries, Copper supply source: 2011; Brook Hunt, WBMS, 1996; Metalistatistik 1986-1996.

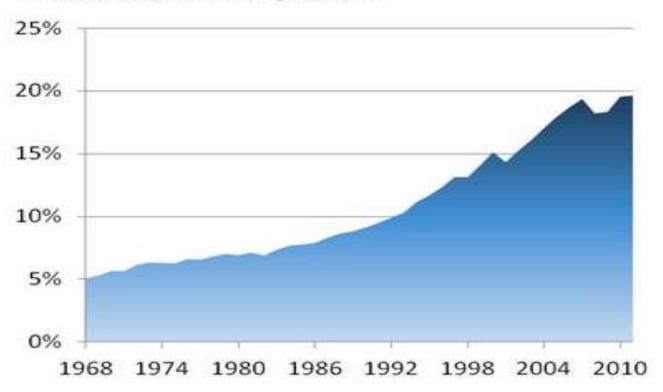


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## **Increased Global Trade**

#### Global Trade Fuels Growth

World Imports & Exports as a % of GDP Source: OECD period ending 12/31/11







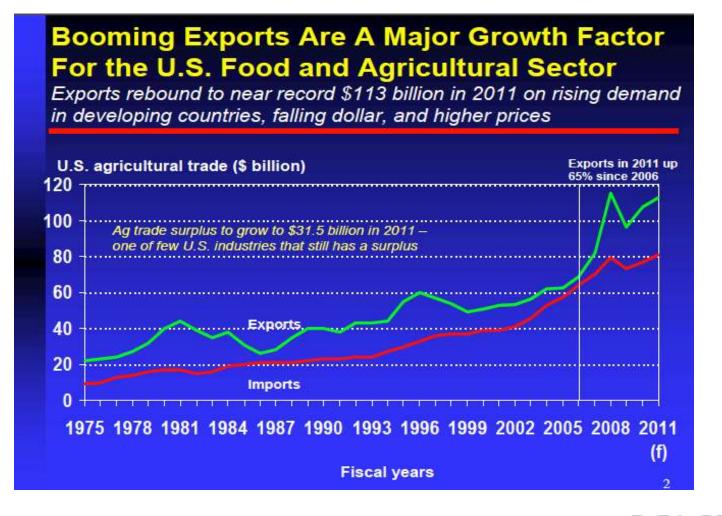
# **Expanding Middle Class**

"Middle Class" Outside the U.S. Expected to Double By 2020 – Approaching 1 Billion Households Worldwide food consumption will be impacted Foreign households w/real PPP incomes greater than \$20,000 a year (in millions of households) 800 Middle class in developing countries projected to increase 138% during 2009-2020 vs. just 15% in developed countries 600 400 Developing countries 200 -Developed 2018 Source: Global Insight's Global Consumer Markets data as analyzed by OGA





## Increased Agri-food Global Trade

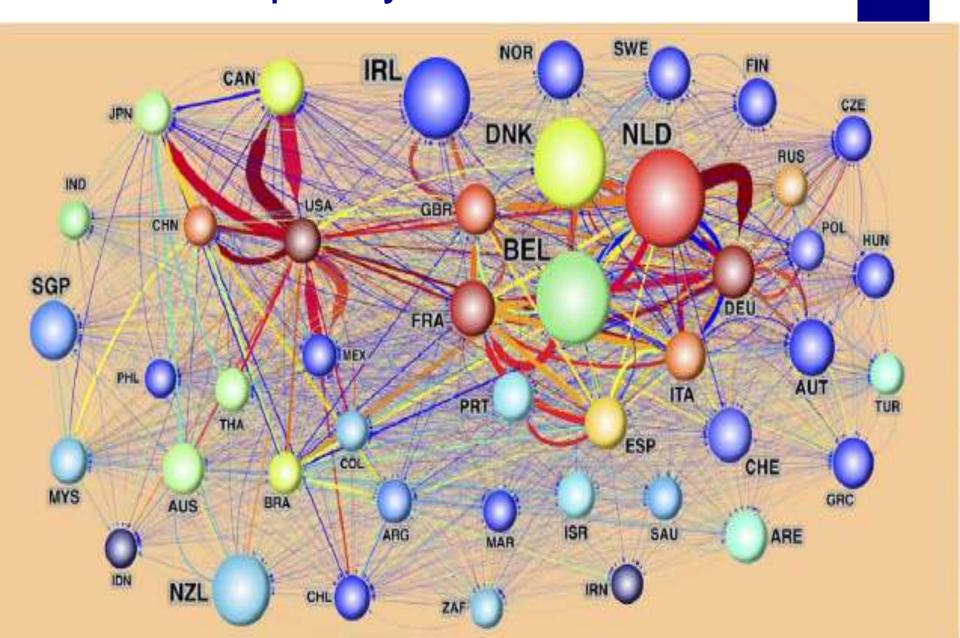


2009-2012 Strongest Four Years for U.S. Ag Exports Ever

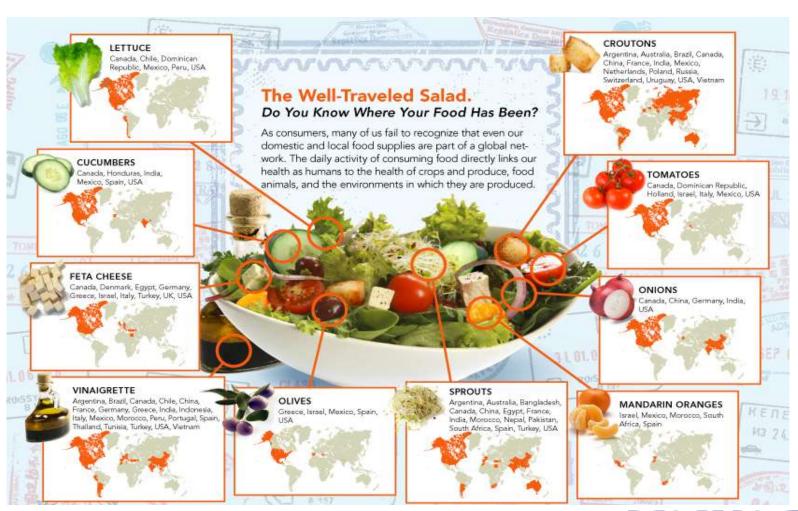




## Complexity of Global Trade



# \* "The Well-traveled Salad"

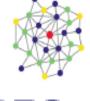




# World Trade Organization (WTO)

- Uruguay Round
  - Negotiations led by U.S., Europe and Japan in 1986
  - 44 countries
  - Address Manufactured Goods and Services, Intellectual Property and Agriculture
  - Rules-based Trade
- #1 Rule: Non-Discrimination
  - All Members Treated Equally (National Treatment)
  - Lower Tariffs
  - Address Non-tariff Barriers
- Dispute Settlement Body
- Agriculture
- Current Membership: 180 Countries







## Sanitary & Phytosanitary Measures (SPS)

### Can Discriminate!

- To Protect Plant, Animal and Human Health & Safety
- Agreement on Sanitary and Phytosanitary Measures (SPS) stipulates basis for acceptable discrimination
  - Need for a Risk Assessment; "Proportionality"
  - Reliance on International Standards: Codex, IOE

#### **Examples**

Food Safety Standards (Pathogens)

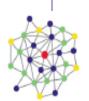
Pesticide MRLs

Food Additives/Novel Foods

(Pharma Agents, Packaging Contact Materials, Biotech Events)

Health & Nutritional Labeling







# As Tariff Barriers Have Decreased, Non-tariff Barriers (NTBs) Have Increased, Creating Market Distortions



#### What are NTBs?

- ✓ Pre-market Approvals
- ✓ Ingredient Testing
- ✓ Product Standard Certifications
- √ Food Safety Regulations
- ✓ Pesticide Residue Levels
- ✓ Labeling Requirements
- ✓ Import Documentation



# \* Non-Tariff Barriers (NTBs) = Regulatory Barriers to Trade



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# Non-Tariff Barriers (NTBs) = Regulatory Barriers to Trade

### What Are NTBs?

- ✓ More Onerous than Tariffs
- ✓ Uncertain, Time-consuming, Procedures
- Cumbersome, Overlapping Bureaucracies
- Costly Testing & Certification Requirements
- Overlapping Administrative Paperwork





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Every FS/QA Manager is a Global Manager!

## **How Address NTBs?**

- Over 1500 Regulations Annual (Up from 650 Ten Years Ago)
- Non-intentional: Lack Regulatory Sophistication, Capacity
- Intentional: To Protect Domestic Economy?
- WTO Requires "Notification," "Consultation" with Trading Partners

notifyus@nist.gov; USDA FAS GAIN Reports

- Need to Strengthen SPS Agreements "SPS+"
  - Easily and Immediately Accessible
  - Translated into English
  - 60-day Comment Period
  - Government Response to Comments

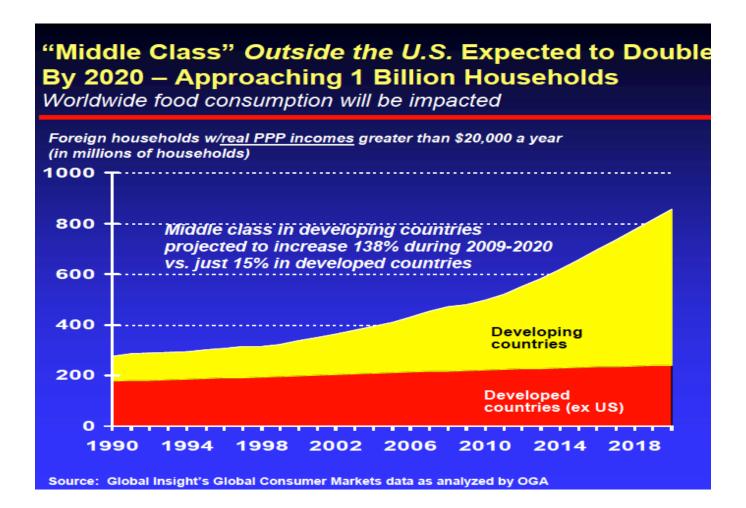


# Doha Development Round





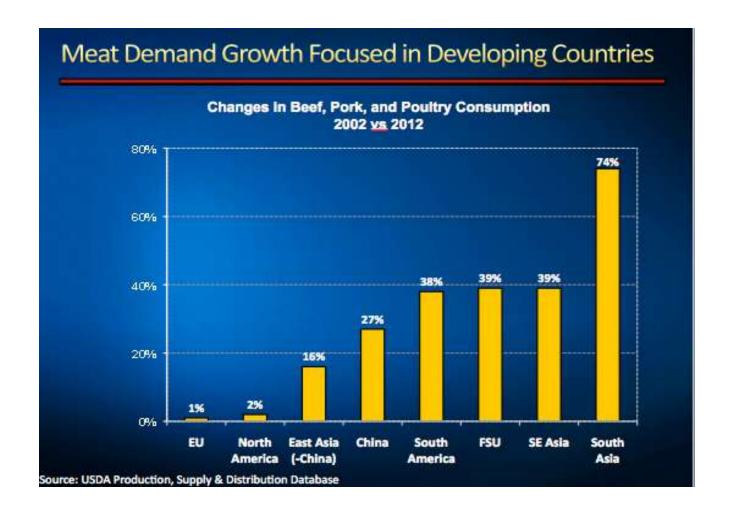
# **Expanding Middle Class**







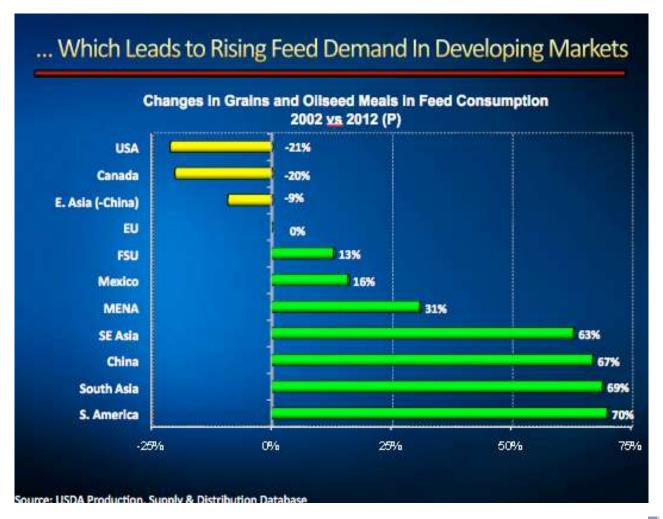
# \*Growing Demand for Meat







# \*Soaring Demand for Feed ...



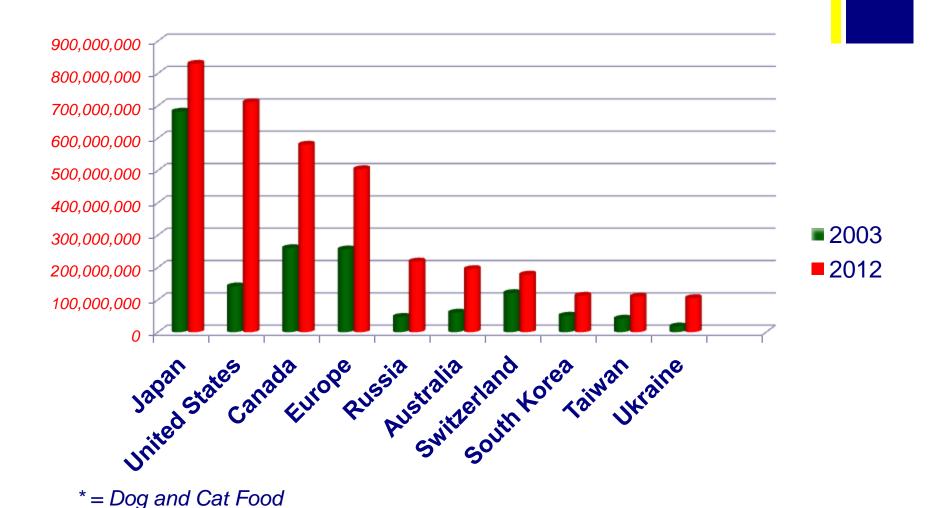
Stagnant, Changing Demand

Rising Incomes leading to Rising Demand for Meat

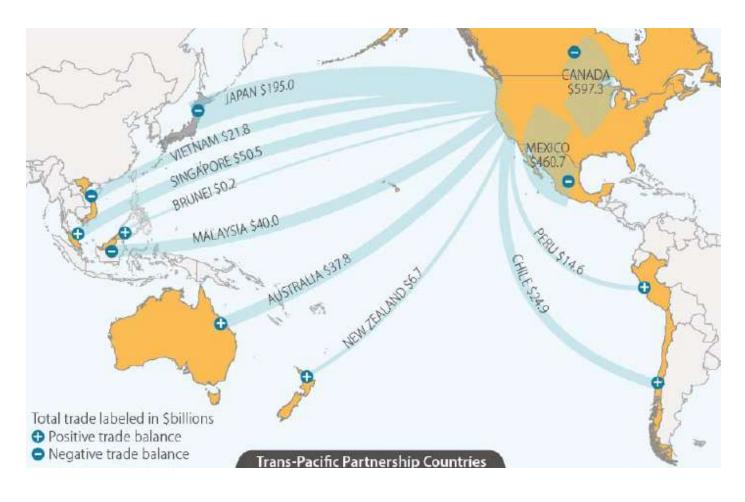


Source: USDA PS&D Database

# + Pet Food\* Exports: Top Ten Markets



# \* Trans Pacific Partnership







# <sup>+</sup> Trans Pacific Partnership

Country	Rank	Imports	Exports	Total	Balance	
Australia	21	7.997.8	18,243.7	26,241.5	10:245.9	_
Brunei	152		96.8	138.4	55.2	
Chile	31	6,047.2	8,693.5	14,740.7	2,646.3	
Malaysia	18	23,252.0	8,911.8	32,163.8	(14,340.1)	
New Zealand	55	2,535.8	2,048.8	4,384.6	(487.0)	
Peru	42	4,234.6	4,355.8	8,590.4	121.2	
Singapore	15	15,586.90	19,923.6	35,511.5	4,335.8	
Vietnam	30	12,366.8	2,966.6	15,333.4	(9.400.2)	
Total TPP	5	72,063.7	65,240.6	137,304.3	(6,823.1)	1
Pacific Rim		564,706.6	240,561.4	805,268.0	(324,145.2)	1
World		1,549,163.5	936,745.0	2,485,908.5	(612,418.5)	



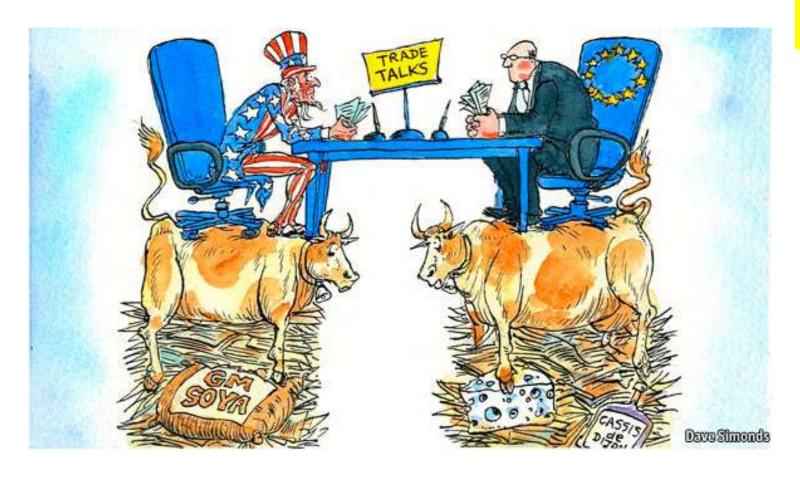
## Trans-Atlantic Trade & Investment Partnership

- Together constitute largest, oldest global trading block
- Upwards of \$500 billion or 47% of global trade
- Economic Engine for the World: Need Domestic, Global Jumpstart
- Intense Frictions
  - US-EU Disputes Constitute 47% of WTO Dispute Panels
  - Many center around Agri-food Issues: Beef Hormones, Biotechnology
  - Role of Agriculture: Food Production v. Multi-functionality
- Real Trade Losses and Regulatory Inspiration to Others





# Trans-Atlantic Trade & Investment Partnership





LINKAGES

# \*China: "Demand on Fire"



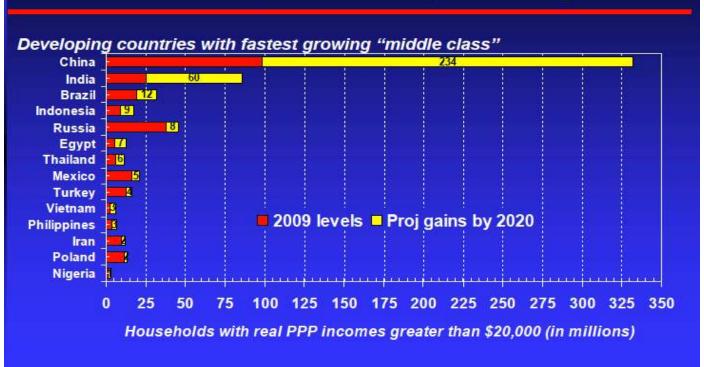
- Tops U.S. Agri-food Exports;
   Will continue indefinitely
- \$2 to 20 billion US imports in a decade
- Not just for commodities, but also highvalue processed foods
- 122 million Chinese moving to East Coast cities over the next decade
- 160 v. 9 cities of 1 million+ population
- 6 vs. 37 cents of \$1 spent on food

LINKAGES

## **Expanding Chinese Middle Class**

"Middle Class" in Developing Countries Could Reach 616 Million Households By 2020, Up 138% From 2009 Levels

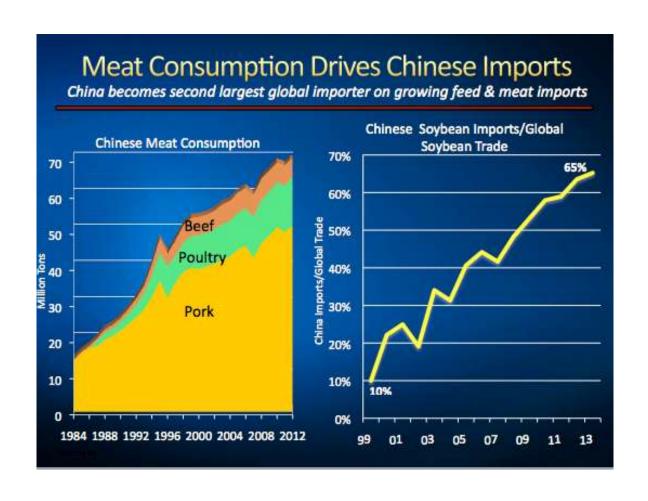
25% of households in these countries are middle class. By 2020, this could increase to 49% and the impact on food consumption will be large







# \* With Changing Tests and Diets

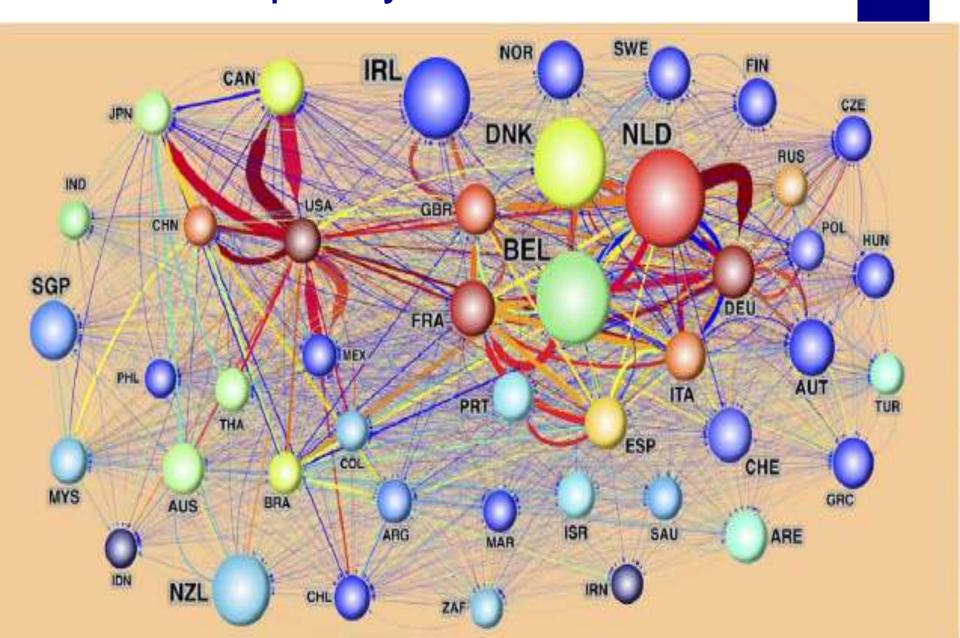




Producer Processor Packager Marketer Retailer Advertiser Consumer



## Complexity of Global Trade



Transformed Marketplace Target United States Europe Japan Brazil

Today, all managers are global managers operating in a global environment.



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Volatility
Uncertainty
Complexity
Ambiguity



# \* "The New Normal"

"The New Normal is No Normal. It is dynamic, not fixed with countries rising and shaping the multi-lateral trading system – no longer just the United States and Europe. Rising economies will be joining new networks, in diverse combinations and constantly changing patterns. These new networks will be displacing old hierarchies."

"Having eyes and ears around the world is critical"





## How to be a Global Operator?

"It's about creating LINKAGES"

Identify "Hot Nodes"

Leverage Your Resources; Take a Leadership Role

Avail Yourself of Government Resources (US and Others!)

Think, Operate in an Integrated Global Manner

Learn the Rules: Science, Transparency

Create Management Systems that Work For You





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