Global Food Systems

One World One Health 2-4 October 2007 Brasilia, Brazil





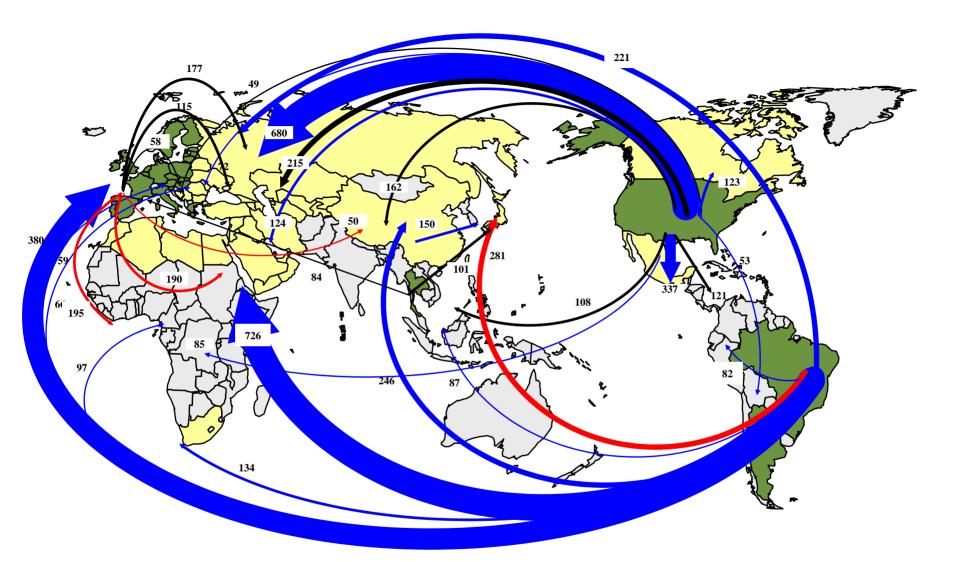
- An International Provider of Food, Agricultural and Risk Management Products and Services
- Over 150,000 employees in 63 countries
- Customer Solutions: Food Ingredients, Grain & Oilseed Processing, Animal Proteins (Beef, Pork, Poultry & Eggs), Animal Feed & Feed Ingredients, Risk Management & Transportation

Global Leader in Nourishing People

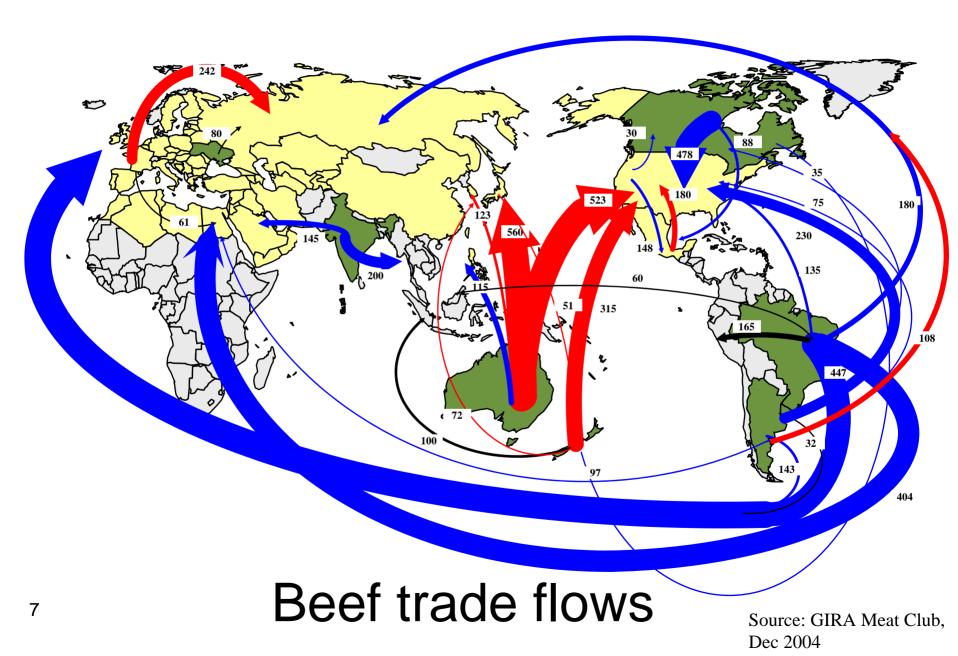


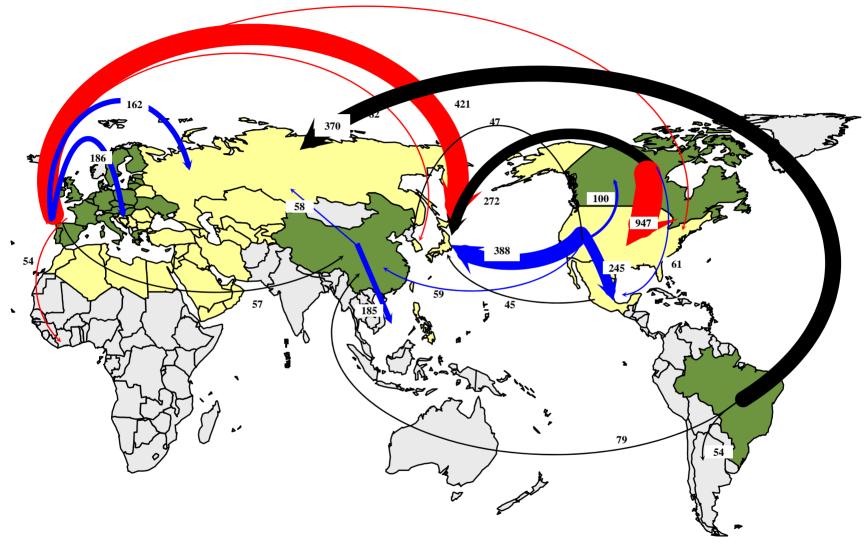






Poultry trade flows

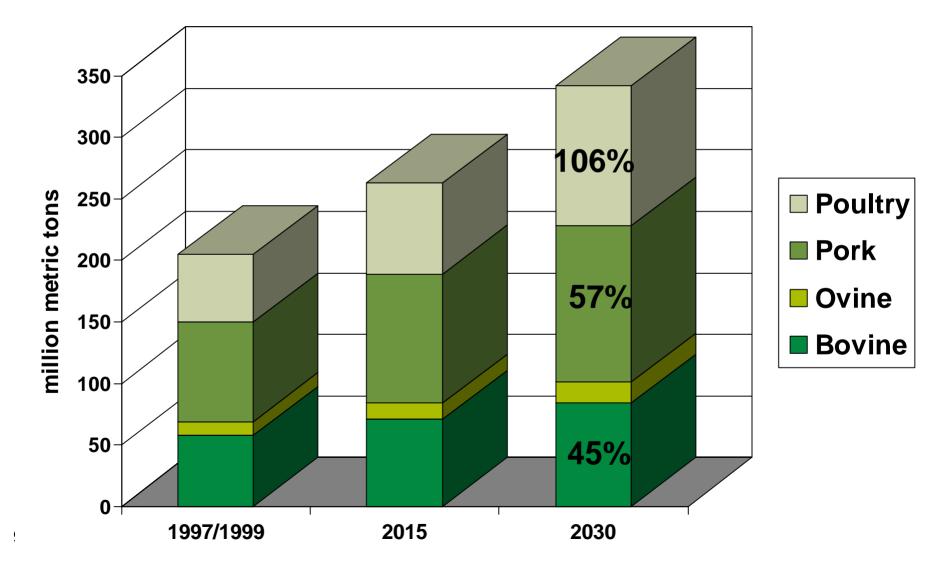


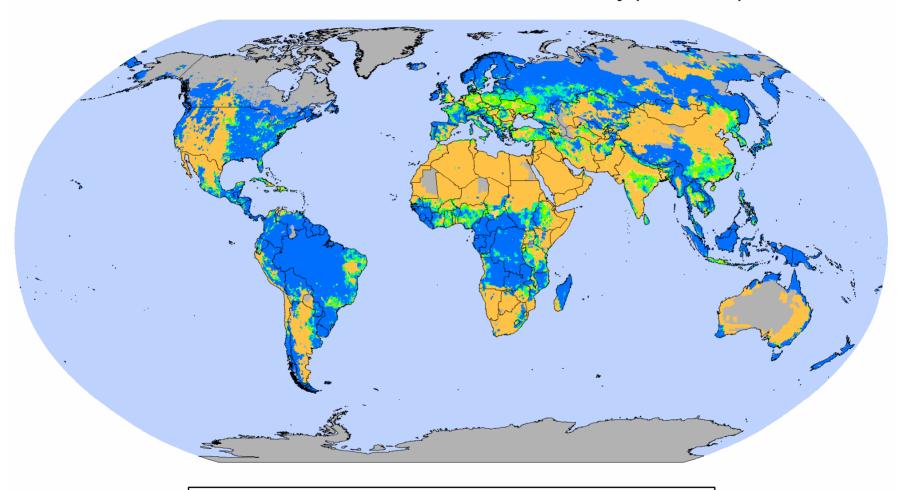


Pork trade flows

Source: GIRA Meat Club, Dec 2004

Global Meat Demand by Protein





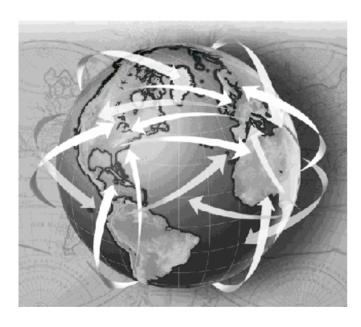
Global Annual Renewable Freshwater Availability (2.5 minute)



Sources: ISciences, LLC (processing & visualization); University of New Hampshire & Global Runoff Data Center (annual freswater runoff); Center for International Earth Science Information Network, Columbia University (population); United States Geological Survey (water sheds, rivers), Geoscience Australia (Australian watersheds); ESRI, Inc. (national and state/province boundaries).

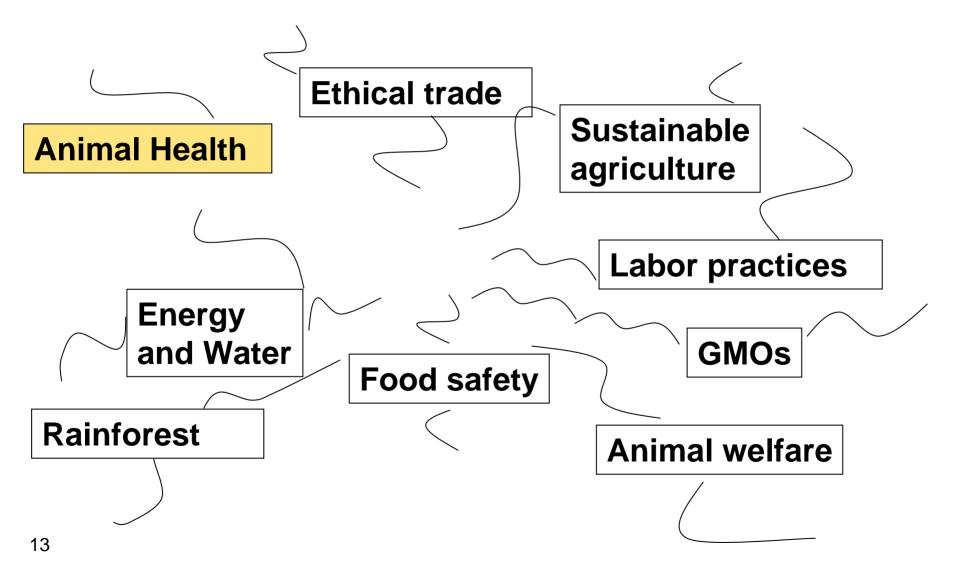


Benefits of a Global Food System



- Produce in optimal regions
 Resources, Labor, Water, Soil
- Balance annual and seasonal production variations
- Optimize value of "parts"
- Stimulates global economic development
- Increased variety of food for global consumers

Complex Global Food System Issues



The Wakeup Call



H5N1





Animal Diseases

- Disrupt lives, societies and supply chains
- Impact consumer confidence
- Inflict huge economic damages
- Are increasing in frequency and severity

70% of known pathogens are zoonotic

- Food-borne, environmental and direct animal contact
- Virus evolution into new strains (ex: pandemic)

Some Observations

- Disparity in animal and public health capacity undercuts global disease control
- Failure to recognize the <u>global public good</u> of animal and public health systems
- National self-interests often trump global needs
- Failure to implement science-based trade standards needed to optimize global food systems
- Lack of integration between the animal, human and wildlife/environmental health communities
- Resistance to technology limits solutions
- Lack of sustainable models for animal health services in the developing world

A New Reality?

- Not all diseases can be eradicated globally
- Diseases do <u>not</u> always respect borders
- Most diseases do not require complete trade suspension to prevent, control, eradicate
- Prevention and risk management are more effective than a crisis response

Governments alone can not effectively manage risk **Role for Public Private Partnerships**





Opportunities

- Public-Private Partnerships
- Implementation of international standards
- Veterinary Services capacity building
- Adopt tools to limit supply-chain disruption
 - Compartmentalized animal production
 - Geographic Zoning where appropriate
- Leadership Development
- New VS models for the developing world

Global Food System<u>s</u>

