Food Safety in Developing Economies: Reflecting on Progress, Envisioning the Road Ahead

HALEY F. OLIVER

ASSOCIATE DEAN FOR ONLINE PROGRAMS, COLLEGE OF AGRICULTURE

150th Anniversary Professor

DEPARTMENT OF FOOD SCIENCE

DIRECTOR, USAID FEED THE FUTURE FOOD SAFETY INNOVATION LAB

A FEW NUMBERS



1/6 people in American experience foodborne disease annually



\$15.6B



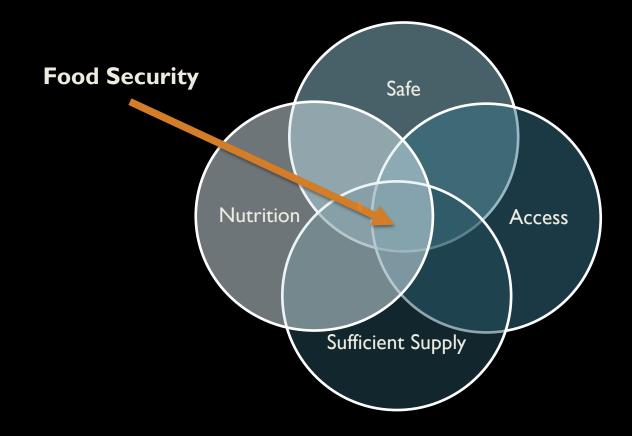
600 MM cases, 420 deaths globally annually



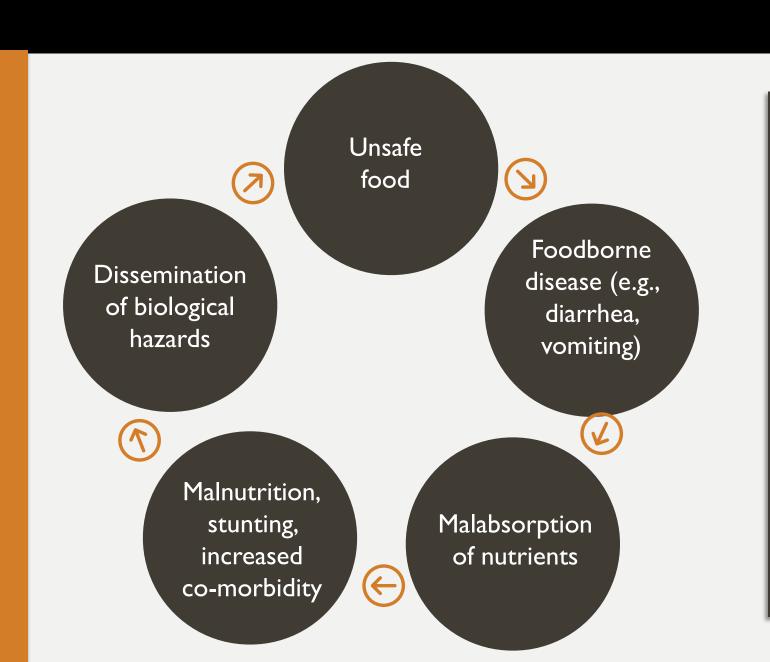
Norovirus, salmonellosis, campylobacteriosis, toxoplasmosis

LINKING FOOD SAFETY & FOOD SECURITY

Food security is achieved when foods are safe, nutritious, accessible, and available



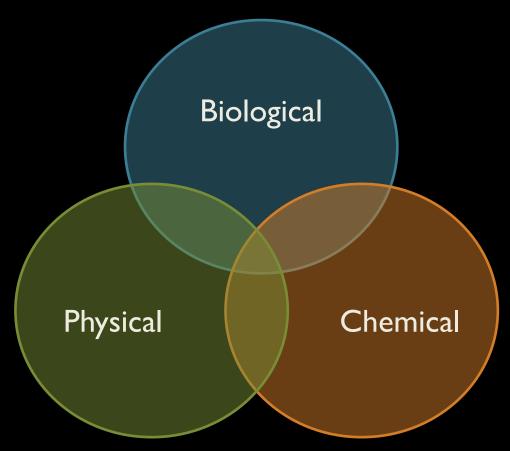




Unsafe food creates a cycle of disease and malnutrition, particularly affecting infants, young children, elderly, and sick

Advancements in Developing Economy Food Safety

- Aflatoxin in prevention and awareness
- Pesticide and fertilizer use



BARRIERS TO ACHIEVING FOOD SAFETY GOALS IN DEVELOPING ECONOMIES

- Other priorities!
 - Political, climate, disease
- Resource constraints (time, money)
- Quality/safety confusion
- Infrastructure (location to national)
 - Testing labs, cold chain, inspection
- Education, personnel, access
- Leadership commitment
- Regulatory structure
- Liability/consequences

Enabling Conditions





FEED THE FUTURE INNOVATION LAB FOR FOOD SAFETY (FSIL)









RESEARCH & ENGAGEMENT ACTIVITIES



AWARENESS

Increase awareness of food safety issues, impacts, and measures to reduce food safety risks.



RESEARCH

Build local research capacity and conduct research on regional food safety challenges.



POLICY

Develop policies that enable conditions for food safety research, translation, and practice.



TRAINING

Accelerate translational research technologies and practices.







WHAT I'M THINKING ABOUT

- POST-PANDEMIC SANITATION HAS RETURNED TO "NORMAL"
- DIG DEEPER INTO BEHAVIOR AND MOTIVATORS
- Lessons learned for hospitals, long-term care
- ADVANCING DEI IN FOOD SAFETY AND FOOD SECURITY
- CELLULAR AGRICULTURE
- LIMITATIONS OF AND IMPROVEMENTS TO
 DISINFECTANTS/SANITIZERS AND IMPLICATIONS FOR THE FOOD INDUSTRY
- DISEASE ASSOCIATED WITH LOW MOISTURE FOODS