Food Safety and Nutrition: Why does it matter?

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UNSAFE FOOD CREATES A CYCLE OF DISEASE AND MALNUTRITION, PARTICULARLY AFFECTING INFANTS, YOUNG CHILDREN, ELDERLY AND SICK

Dissemination of Biological Hazards

Unsafe Food

Malnutrition, Stunting, Increased Co-morbidity

Foodborne Disease (e.g. diarrhea, vomiting)

Malabsorption of Nutrients

Source: FTF Food Safety Innovation Lab
Food Safety: What do we know?

• **1 in 10 people develop foodborne illness** from consumption of unsafe foods

• **$110 billion** is lost every year due to healthcare costs and lost productivity associated with foodborne illnesses

• **420,000 annual deaths** from unsafe food, 125,000 are children under five

• Unsafe food compromises nutrition
RFS Food Systems Conceptual Framework

**Drivers**
- Technology and infrastructure
- Politics and governance
- Institutions and social norms
- Demography, geography, and migration
- Climate, environment, and environmental sustainability
- Globalization
- Conflicts, shocks, and stressors
- Finance and trade
- Income growth and distribution
- Public health system and disease

**Food System: Supply and Demand**
- Food supply
  - Land and water resources
  - Input and water supply
  - Agricultural production and loss
  - Transport and storage
  - Food trade and distribution
  - Processing and packaging
- Food environment
  - Exchange and prices
  - Availability and affordability
  - Markets and access
  - Promotion, advertising and information
  - Food and water quality and safety
- Food and water utilization
  - Purchasing power
  - Behavior and preferences
  - Intrahousehold dynamics and vulnerabilities
  - Preparation and waste
  - Hygiene behaviors

**Development Outcomes**
- Diets
  - Income, health, and nutrition
  - Environmental sustainability

**Investment Levers**
- Research and technology development
- Infrastructure, policy, and governance
- Social protection and human capital
- Risk mitigation and adaptation
- Capacity, education, and behavior change
- Information access and connectivity
Food Safety: What are the gaps?

- What is the relationship between food safety and nutrition based on different levels of contamination?
  - Utilize data to develop risk based, evidence driven approaches
- What are the compounding effects of multiple contaminants within the same food product?
- How can we increase consumer awareness and demand for safe and nutritious food products while avoiding unintended negative consequences?
FOOD SECURITY IS ACHIEVED WHEN FOODS ARE SAFE, NUTRITIOUS, SUFFICIENT, AND AVAILABLE

Source: FTF Food Safety Innovation Lab