

### The Safe Food Imperative

#### Towards Smarter Investment and Regulatory Delivery

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### Main Messages

- Food safety is a mainstream economic development issue but generally has not been recognized as such. When food safety has been on the development agenda this has primarily been in relation to trade. This needs to change.
- In relation to domestic food safety, we often see a policy vacuum, leadership void, and pattern of underinvestment. Concerted public action is normally reactive rather than preventative. Crisis management is more common than risk management.
- The gap between food safety capacity and actual needs is especially problematic among rapidly urbanizing lower middle income countries. For these countries, a 'business as usual' approach will result in large future public health and economic costs.
- There are appropriate food safety public policies and cost-effective investments for countries at all economic levels. Yet, there is a need for smarter investment and a paradigm shift in food safety governance and stakeholder engagement.

# Food safety is a mainstream economic development issue

#### TRADITIONAL IMAGE OF FOOD SAFETY



#### FOOD SAFETY CRITICAL TO ACHIEVING THE SDGS

Food safety is integral to:



#### Food safety (practice) contributes to:



The lack of explicit attention to food safety in the SDGs stems from the low evidence base on the burden of foodborne disease and the overall low awareness of development practitioners about the economic significance of unsafe food.

## Most attention and resources for food safety has focused on trade

Major Market Access Concerns

- Standards as non-tariff barriers?
- Private standards = smallholder exclusion?
- Standards compliance costs
- Harmonization & equivalence



Trade	Domestic
Well organized stakeholders	Non-organized consumers
Clear public SPS roles	Fragmented food control mandates
Costs incurred by lead firms & farmers	FBD burden falls heavily on the poor



Why has domestic food safety emerged as a more prominent issue in Asia than in sub-Saharan Africa?

Differential perceptions about the problem & opportunity

PUBLIC HEALTH RESOURCE COMPETITION

DALYs Ratio: 'Big Three' Combined/ Foodborne Disease



#### MIDDLE CLASS CONSUMER OPPORTUNITY



1 The income range for middle-class families is defined by Brookings as ranging from \$11 to \$110 income per day in 2011 Purchasing Power Party (PPP) terms SOURCE: Homi Irharas (Brookings institute); Team analysis

ASIA WILL ACCOUNT FOR NEARLY 90% OF THE GROWTH OF THE GLOBAL MIDDLE CLASS TO 2030

## Economic costs of unsafe food can take many forms with both short and long-term dimensions

	Types of Costs
Consumers	Cost of illness and treatment; food avoidance or substitution; higher prices
Farm, firm or Industry	Loss of sales & brand equity; lower prices; fines; costs of mitigation; consignment rejections
Food Sector	Limit market expansion; reduce speed of dietary transition; lose market share to imports;
Economy	Loss of labor productivity; public health costs; harm to tourism reputation and earnings; reduced competitiveness and trade revenue

Public health and domestic economic costs of unsafe food may be 20 times the trade-related costs for developing countries



US\$27 x # of Estimated foodborne illnesses

2% of developing country **high value** food exports

#### The Food Safety Lifecycle

The economic burden of unsafe food is systematically linked to the processes of economic development and dietary transformation



Reflects the relationship or gap between food safety needs and actual capabilities and incentives Today's lower middle income countries represent the world's food safety 'hotspot'

## Wide diversity in food safety performance yet consistent with the inverted U "lifecycle" concept

#### PRODUCTIVITY LOSS AS PERCENT OF FOOD EXPENDITURE (2010)



#### REJECTION RATES FOR FISH IMPORTS INTO THE EU (2014-16)



While we lack objective measures for many dimensions of food safety capacity, qualitative food control assessments in many low and middle income countries point to common shortcomings

#### Policy and rules

- No comprehensive national policy >>>> lack of prioritization
- Progress on food law; less on regulations to enable its enforcement
- Many standards; lack of clarity on voluntary vs. mandatory nature
- Lack of mechanisms for accreditation/certification of businesses

#### Institutional fragmentation and compartmentalization

- Split of institutional responsibilities; at center and decentralized
- Disconnects between trade & domestic food governance
- \* No coordination on market surveillance; site/enterprise Inspection is not risk based
- Laboratory testing units not functioning as a cohesive network



Sources: FAO assessments in multiple countries of South and Southeast Asia, 2015 to 2017

Many low and lower middle income countries have only islands of food safety capacity in government and the private sector. The situation is much better for upper middle income countries



Proportion of countries with adequate capacity: OIE PVS Assessments

## Investment in food safety capacity can yield high returns in domestic markets

#### FBD DALYS FOR ANIMAL SOURCED FOOD FOR AFRICAN COUNTRIES WITH ADEQUATE AND INADEQUATE VETERINARY SERVICE FUNDING

#### TECHNICAL AND ECONOMIC BENEFITS FROM INTERVENTIONS IN INFORMAL MARKETS



Red vs. Green: inadequate vs. adequate operational funding Source: OIE PVS Assessments and FERG Researchers

	Kenya Milk	Nigeria Meat	India Milk	
Timing	Timing 1997-2006 200		2008-2013	
# Trained	trained 3200 500		900	
Interventions	Hygiene training; certificates	Hygiene training; materials, collective oversight	Hygiene and business training	
Impacts	Impacts Reduced incidence of unacceptable coliforms		Lower disease incidence	
Consumers Benefitting	1 million	360,000	1.5 million	

Examples from ILRI-supported initiatives

#### Impacts of improved food safety capacity are complex and wideranging— many such impacts are underestimated or unnoticed



## Investment in food safety capacity can yield high returns for exports

#### LOW AND MIDDLE INCOME COUNTRY HIGH VALUE FOOD EXPORTS



#### FOOD SAFETY COMPLIANCE CHALLENGES HAVE CATALYZED INVESTMENTS & UPGRADES

- The 10 to 15 countries which dominate food safety capacity expansion also dominate high value food trade
- Declining rejection rates for many leading countries/industries—who otherwise dominate rejections
- Other illustrative examples of high benefit/cost ratios among smaller countries and industries
- But does capacity strengthening for trade have positive spillovers to domestic food safety?

Global patterns of food trade are changing with significant implications for food safety policy

#### SURGING LOW AND MIDDLE INCOME COUNTRY HIGH VALUE FOOD IMPORTS



#### SOME TRENDS

- The share of high income countries as both suppliers & recipients of developing country high value foods is declining
- The most rapid growth is in South-South trade, especially for trade involving low and lower middle income countries

Why does this matter for policy, strategy or capacity building efforts?

Dominant middle income importers of high value foods may not be applying consistent and transparent risk-based approaches to food import controls

#### 10 countries account for 2/3 of developing country high value food imports

#### Food Import Controls: Elements of Good Practice

#### • Transparency in legislation & operating procedures.

- Institutional roles & responsibilities clearly defined.
- Consistency & impartiality in the application of controls.
- Harmonization with existing standards & guidelines
- Recognition of trading partner food control systems



#### A Mixed Picture Reality

Level of Burden in Applying Rules and Practices to Govern Agri-food Imports High Burden=1; Low Burden=5

Country	ТВТ	SPS	Information	Administrative Burdens	Enforcement Consistency	Total	
	Middle-Income						
Peru	3	3	5	3	3	17	7/2
Mexico	4	3	4	2	2	15	ビンコーアー
Malaysia	2	2	4	3	3	14	7/-//
Philippines	3	3	2	2	1	11	
Vietnam	3	3	2	2	1	11	
Thailand	2	2	3	2	1	10	
Russia	2	2	2	1	3	10	
Papua NG	3	2	2	1	2	10	
China	2	2	3	1	1	9	
Indonesia	1	1	1	1	1	5	
Average	2.5	2.3	2.8	1.8	1.8	11.2	
			High-Incom	ie			
Singapore	5	5	5	5	5	25	
New Zealand	5	4	5	5	5	24	
Taiwan (ROC)	4	3	5	4	5	21	
Japan	3	3	5	4	5	20	
Australia	3	3	5	4	5	20	
USA	3	3	5	4	4	19	
Chile	4	4	3	3	5	19	
Canada	3	3	4	4	4	18	
S. Korea	3	2	3	3	3	14	
Average	3.7	3.3	4.4	4.0	4.6	20.0	

Source: APEC Business Council 2016

## There is a need for more and smarter public investment in (domestic) food safety...

Clear purpose & evidence-based



Capture synergies



Foundational knowledge & human resources



Monitor Impact



Balance hardware / software



Leverage private investment



### ....and improving regulatory delivery







#### Food Safety as Shared Responsibility

**Regulator versus Regulated** 

In many countries, finding better ways to leverage private initiative and to operationalize the concept of shared responsibility are major challenges





## Calls to Action

#### by stakeholder type

Food Industry and Agricultural Associations



### Organize collective action

- Build awareness and facilitate action
- Good practices (ag, manufacturing)
- Advocate for good policy and regulatory delivery

Ministries of Finance

#### Target public spending

- Calibrate to costs and benefits
- Preventive rather than reactive
- Balanced (hardware/software)

Academic and Research Institutions



#### **Build evidence**

- Fund scientific research
- Train professionals
- Carry out risk assessments
- Evaluate interventions

National Food Safety Agencies or Technical Ministries

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- Unify food strategiesEvidence-based
- Support compliance
- Leverage private investment
- Empower consumers

Development and International Technical Agencies



### Focus more on food safety for domestic health

- Conduct economic analysis and M&E
- Facilitate resource priority processes
- Foster South-South learning
- Benchmark food safety systems
- Address export & import controls

#### Need for policy leadership!!!

# What are the Implications for the STDF?

- More attention to import controls as the 'forgotten' aspect of agri-food trade as the importance of imports increases in middle-income countries
- Focus on enhancing the spillover effects of traderelated capacity-building as the segregation of export and domestic market focused value chains diminishes in middle-income countries
- Only invest in capacity-building where there is a concrete financial commitment from national governments and/or the private sector in order to ensure local ownership and sustainability

### Thank You

Just Released .....

#### The Safe Food Imperative:

Accelerating Progress in Low- and Middle-Income Countries

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