

#### FOOD SAFETY IN TRADITIONAL MARKETS: CHALLENGES AND OPPORTUNITIES

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#### WHY FOOD SAFETY? AND WHY IN TRADITIONAL MARKETS?

#### **FOODBORNE DISEASE**

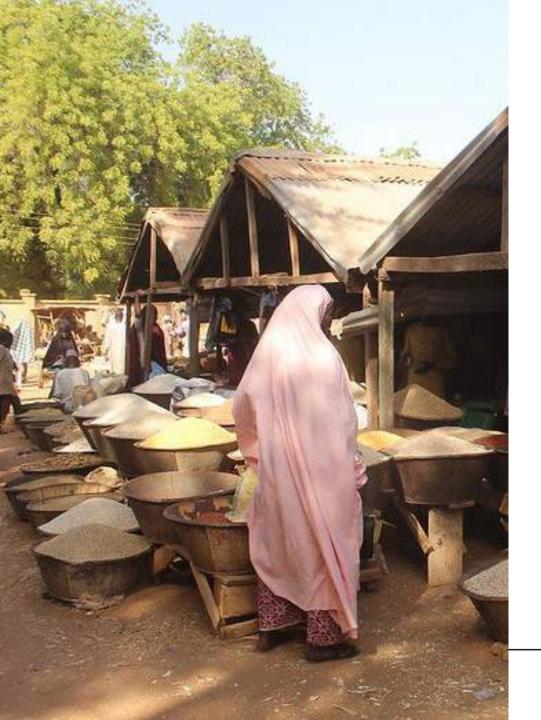
- **Diverse causes,** can enter the food supply at various stages, and can both cause acute illness and raise risk of chronic disease (e.g., aflatoxin, arsenic)
- Estimated 600 million cases and 420,000 premature deaths annually (2010 est.)
- Burden comparable to HIV/AIDS, malaria or tuberculosis
- Economic costs estimated at about \$20 billion USD per year (not including productivity losses)
- Burden disproportionately borne by LMICs, young children
- Particularly affects nutritious foods

But foodborne illness is largely preventable through known actions.

#### Traditional markets are a key intervention point for food safety:

- Main source of food for majority of urban shoppers in LMICs
- Last point in supply chain pre-consumer: best practices up-chain can be undone here
- Often lack the infrastructure (refrigeration, electricity, water) of 'modern' retail





#### METHODOLOGY

Studies in two cities in northern Nigeria (Birnin Kebbi; Sokoto) + one in central Ethiopia (Hawassa), aiming to inform an intervention

- 2 systematic reviews
- In-depth qualitative ethnographic studies among consumers and vendors (n=73 E, 83 N)
- Cross-sectional surveys (n=300 E, 850 N) among vendors and consumers
- Market observations
- 2y of implementation of 6 interventions







#### CHALLENGES

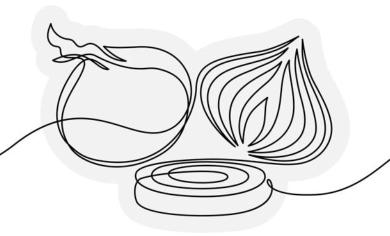


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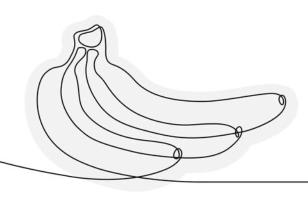
#### **CONSUMER PERSPECTIVES**

## Food safety is not a main worry for most consumers

- Some knowledge and understanding
- Underestimation of risks (e.g., few reported getting sick or knowing anyone who had)
  - Less than one third reported personal foodborne illness experience
  - Not linking risk to food
- Known versus unknown chemical hazards
- Fatalism: lack of ability to control exposure
- Information v. motivation



- Price as an overriding factor
- Exacerbated by high food inflation
- Limited willingness to pay
- Most consumers report that they do trade off quality and price: would buy a lower-quality food if it had a lower price
- Inability to discuss food safety with vendors: don't believe will tell truth, seen as accusatory (E)
- Reliance on trusted repeated vendors (but not always)
- Heuristics: Consumers believe they can detect many problems by visual inspection (e.g., 98% E) (False sense of control)



Food safety is a credence good





#### **VENDOR PERSPECTIVES**

#### Limited capacity and skills

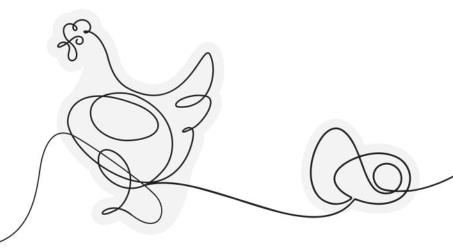
- Low education, low income
- Basic knowledge on food safety, but few trained
- Few observe basic food safety practices (washing hands, covering food/self, not handling with hands)
- Difficult to improve under market constraints (Ethiopia: no water, electricity, paving, or drainage; Nigeria better but still no running water)
- 'Best practices' beyond reach
  - And some come with a cost
  - ...But consumers fixate on price: Most consumers only ask price, nothing more



#### **Limited incentives**



- Lack of regulation / enforcement attention on traditional markets
- Largely informal or semi-formal; no certifications
- Testing largely unaffordable / infeasible
- $\rightarrow$  Lack of signalling mechanisms
- Asymmetric or missing information



#### There is a need to create consumer demand for safer food: Vendors (and supply chains) have limited incentive to supply it without, and most

regulatory, testing, and enforcement systems will take many years to become sufficiently functional.

#### **OPPORTUNITIES**





#### CONSUMERS

# Focus as much (or more) on motivation as education.

Share appropriate, identifiable heuristics (correlated with risk).





#### VENDORS

Leverage the reputational aspects of repeat interactions between consumers and vendors: loyal customers are central to vendors' livelihoods.

Focus on personal interests and social norms: Vendors also consumers, and informal social norms operate among vendors







### FEED FUTURE

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# Thank you