FOOD SAFETY AND AGRICULTURAL VALUE CHAIN DEVELOPMENT

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AGRICULTURAL VALUE CHAINS

INPUTS

PRODUCTION

CONSOLIDATION/ TRANSPORT

LOCAL USE/ SALE

PROCESSING

PACKAGING

INSPECTION

COMMERCIAL SALE

CONSUMERS
EXTERNAL INFLUENCES

INPUTS
SOCIO-CULTURAL
PROCESSING
ENVIRONMENTAL
ECONOMIC
PACKAGING
INSPECTION
PRODUCTION
TECHNOLOGICAL
CONSOLIDATION/TRANSPORT
LOCAL USE/SALE
POLITICAL
LEGAL
COMMERCIAL
SALE
CONSUMERS

LOCAL USE/
SALE
COMMERCIAL
SALE
ENVIRONMENTAL
TECHNOLOGICAL
CONSOLIDATION/
TRANSPORT
INPUTS
SOCIO-CULTURAL
PROCESSING
SOCIETAL
CULTURAL
FOOD SAFETY HAZARDS

INPUTS

CONSOLIDATION/TRANSPORT

LOCAL USE/SALE

PACKAGING

INSPECTION

COMMERCIAL SALE

CONSUMERS
CONTROL POINTS

- SPS Regulatory Environment
- Physical Infrastructure
- Practices: Production, Processing, and Handling
HOLISTIC APPROACH TO FOOD SAFETY

Animal Health + Plant Health + Food Monitoring

Improved Human Health
CASE STUDY: Guatemalan Horticulture

Integrated Pest Management And Good Agricultural Practices

Science

Chemical Application and Use Training

Labeling Laws

Enabling Environment

MINISTERIO DE AGRICULTURA, Ganadería y Alimentación
Cámara de Industria de Guatemala
Guatemala Agricultural Committee
AGEXPORT
Agricultural Exporters Association of Guatemala
CODEX ALIMENTARIUS
USDA
FDA
US AID
1. National team established
2. Alternative pesticides identified
3. Field and Laboratory training
4. Conduct Actual Research
5. Data Review and Data Package Preparation for Codex Submission
CASE STUDY: Guatemalan Horticulture Results

- New law making *Methamidothos* illegal in Guatemala
- New regulations governing the sale of pesticides and their labeling
- Farmers no longer exposed to highly toxic *Methamidothos*
- Guatemalan snow peas and French beans safe to eat domestically
- FDA removes Guatemalan snow peas and French beans from its automatic detention list.
- Detentions of Guatemalan snow peas and French beans has dropped from over 1800 containers detained in 2014 to under 100 in 2016.
- Guatemala to establish Codex MRLs for safer production chemicals – international standards (and uses) available to all countries.
CASE STUDY: Kenya Aflatoxin Contamination
CASE STUDY: Kenya Aflatoxin Contamination Results

- Aflatoxin contamination reduced by 80-100% in farmer fields
- Aflatoxin sampling guidance adopted by East African countries
- Bio-pesticide guidance adopted in East Africa and introduced in West Africa
- 13 Biocontrol products being developed
- 10 Biocontrol products fully/pre registered