



FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative

**FOOD SAFETY
AND
AGRICULTURAL VALUE CHAIN
DEVELOPMENT**

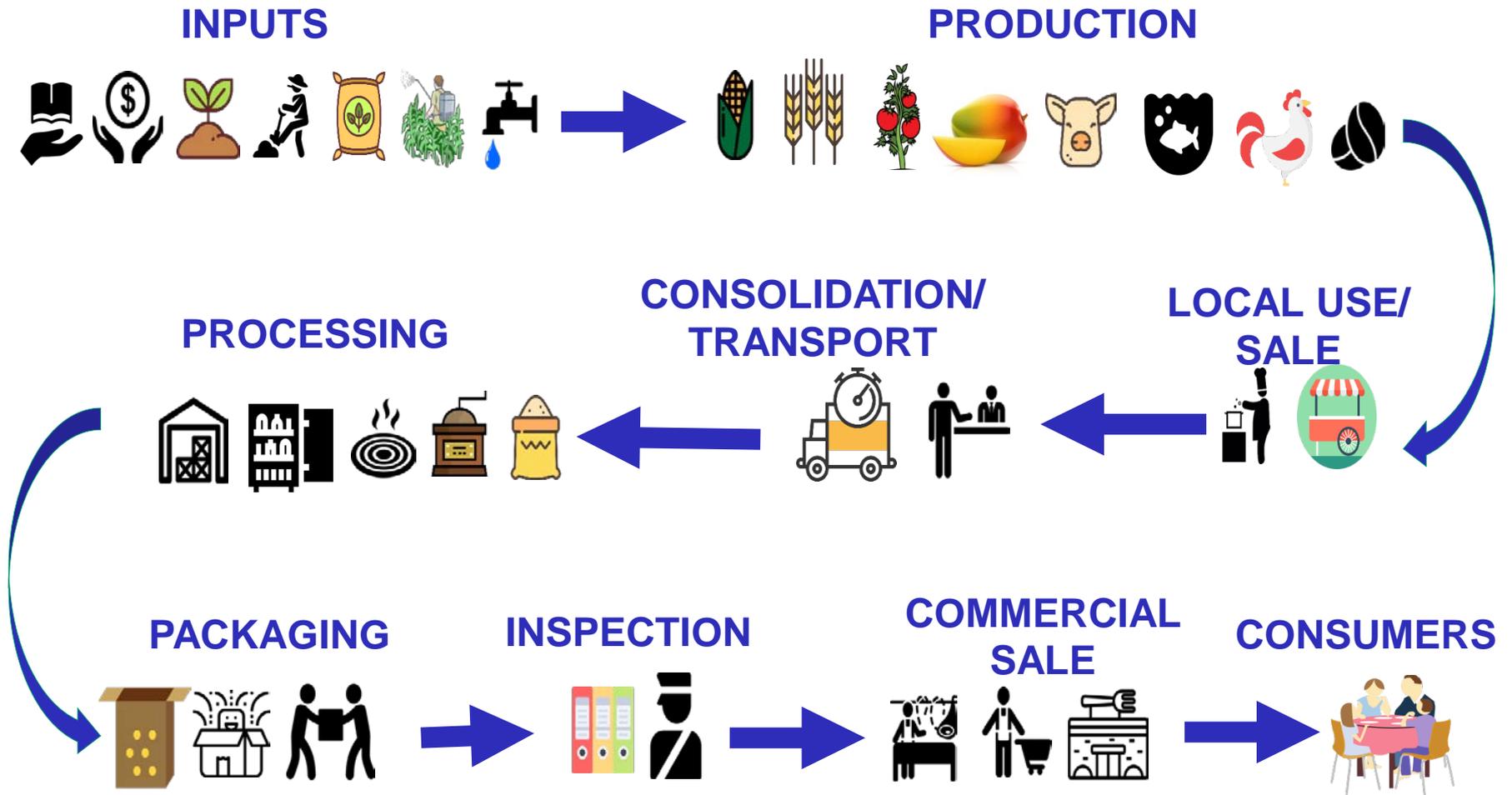
**Dr. Jason Sandahl
Foreign Agricultural Service
US Department of Agriculture**



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AGRICULTURAL VALUE CHAINS

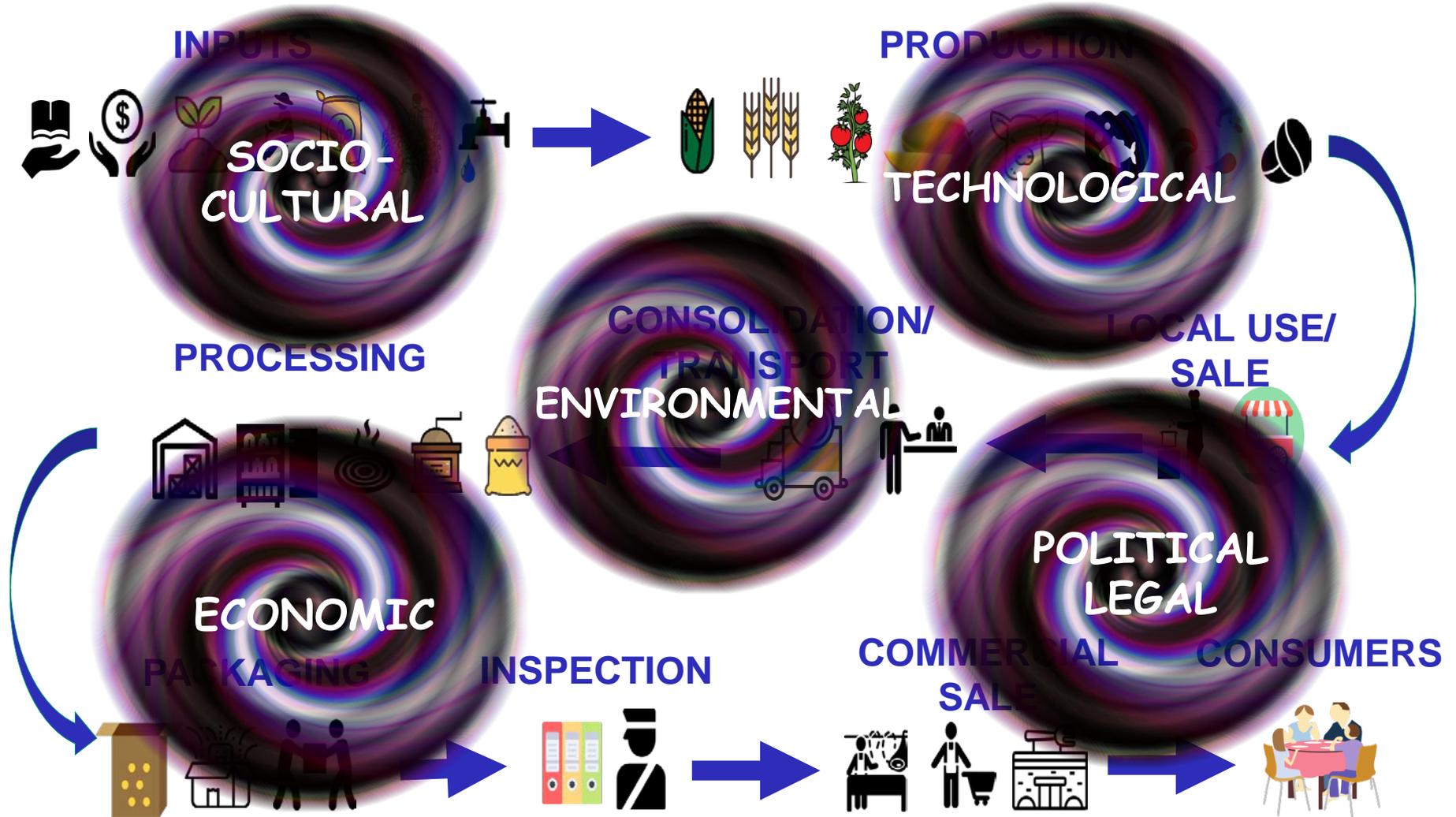




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EXTERNAL INFLUENCES

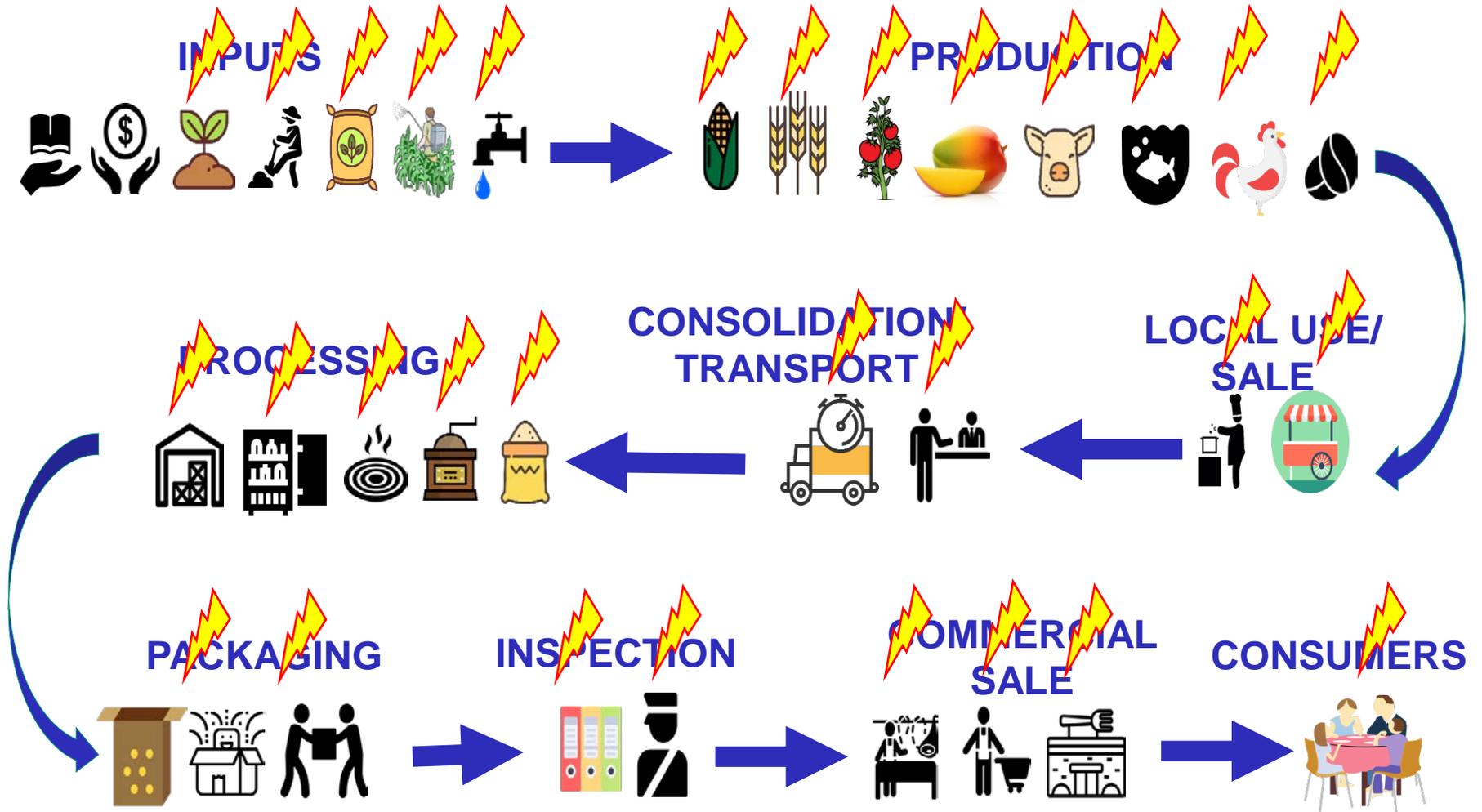




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FOOD SAFETY HAZARDS





CONTROL POINTS

RISK MITIGATION

- SPS Regulatory Environment
- Physical Infrastructure
- Practices: Production, Processing, and Handling





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HOLISTIC APPROACH TO FOOD SAFETY

**Animal Health
+ Plant Health
+ Food Monitoring**

**Improved Human
Health**



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CASE STUDY: Guatemalan Horticulture



Integrated Pest Management
And
Good Agricultural Practices



Enabling
Environment



Science



Chemical Application
and Use Training



Labeling
Laws



MINISTERIO DE AGRICULTURA,
GANADERIA Y ALIMENTACION



Guatemala
Agricultural
Committee



AGEXPORT
ASOCIACION GUATEMALTECA DE EXPORTADORES



USAID



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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.



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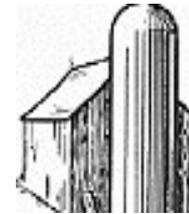
CASE STUDY: Kenya Aflatoxin Contamination



Enabling Environment



Science



On-farm storage



Commodity Aggregation



AFRICAN AGRICULTURAL TECHNOLOGY FOUNDATION
FONDATION AFRICAINE POUR LES TECHNOLOGIES AGRICOLES



BILL & MELINDA GATES foundation



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