Private Sector Needs for Food Defense Solutions

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agenda

- food safety vs food defense
- key vulnerabilities
- challenges
- possible solutions
food safety vs defense

- well positioned for food safety
  - unintentional contamination
  - food safety infrastructure
  - prevention, detection, and response systems
  - validated processes
  - training and research

- no similar system for food defense
food safety vs defense

differentiation based upon:

- the accidental vs the intentional
- the chance occurrence vs the malicious intent
- the unplanned vs the deliberate

> these are important distinctions to the food industry, particularly with regard to management and prevention practices
food safety infrastructure and systems

- food safety programs
  - GAP
  - GMP
  - HACCP
- federal, state, local inspection
- prevent, detection and response systems
  - lacking in some less developed countries
food defense

- prevention
- detection
- response
- remediation

所有的都取决于充足的规划
vulnerabilities

- agricultural production
- storage and transport of raw commodities
- processing and manufacturing
- storage and transportation of products
- wholesale and retail distribution
- food service
challenges

- emphasis on food safety vs security
- inadequate security personnel
- lax transportation security
- off-shore sourcing of food
  - reliance of foreign government oversight
  - limited inspection of imports
- open access to food at retail/food service
challenges

- inadequate public/private sector coordination and planning
- inadequate risk communication planning
- poor connection to intelligence community
possible solutions

- strengthen public/private partnership
  - two-way sharing of info between government and industry
- multi-sector collaboration
- international government involvement
possible solutions

- develop training and education materials
- define criteria for employee screening
- address vulnerability in food transport systems
possible solutions

- improved procedures to inspect imported food
- development of rapid testing methods
  - deployable in the field
  - broad spectrum
  - capable of testing large samples vs small
improved detection

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- no sampling
- non-destructive
- microbial, chemical, GMO capability

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possible solutions

- government/industry table top exercises to improve emergency response and communications
- establish local emergency response plans
- establish regular communications among law enforcement, intelligence community, regulators, academia, and industry
- utilize “lessons learned” from food safety incidents
Security is incremental in nature - even small gains in security awareness, practices and procedures contribute to the total security of a company, a sector, a region, a state, and/or a nation (think public health interventions).