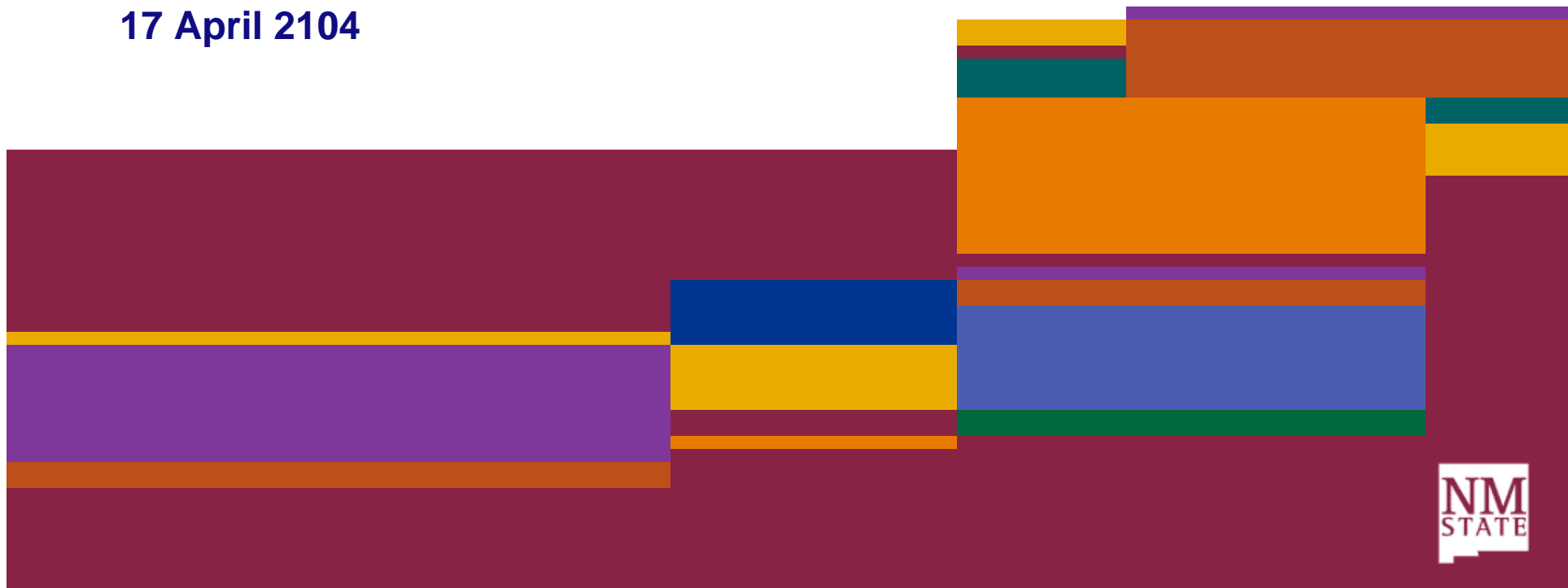


Using the FDA Plan Builder & NMSU Response and Recovery Template to Assess Business Vulnerability

Robert Silver – NMSU Center for Animal Health, Food Safety and Bio-Security

17 April 2104



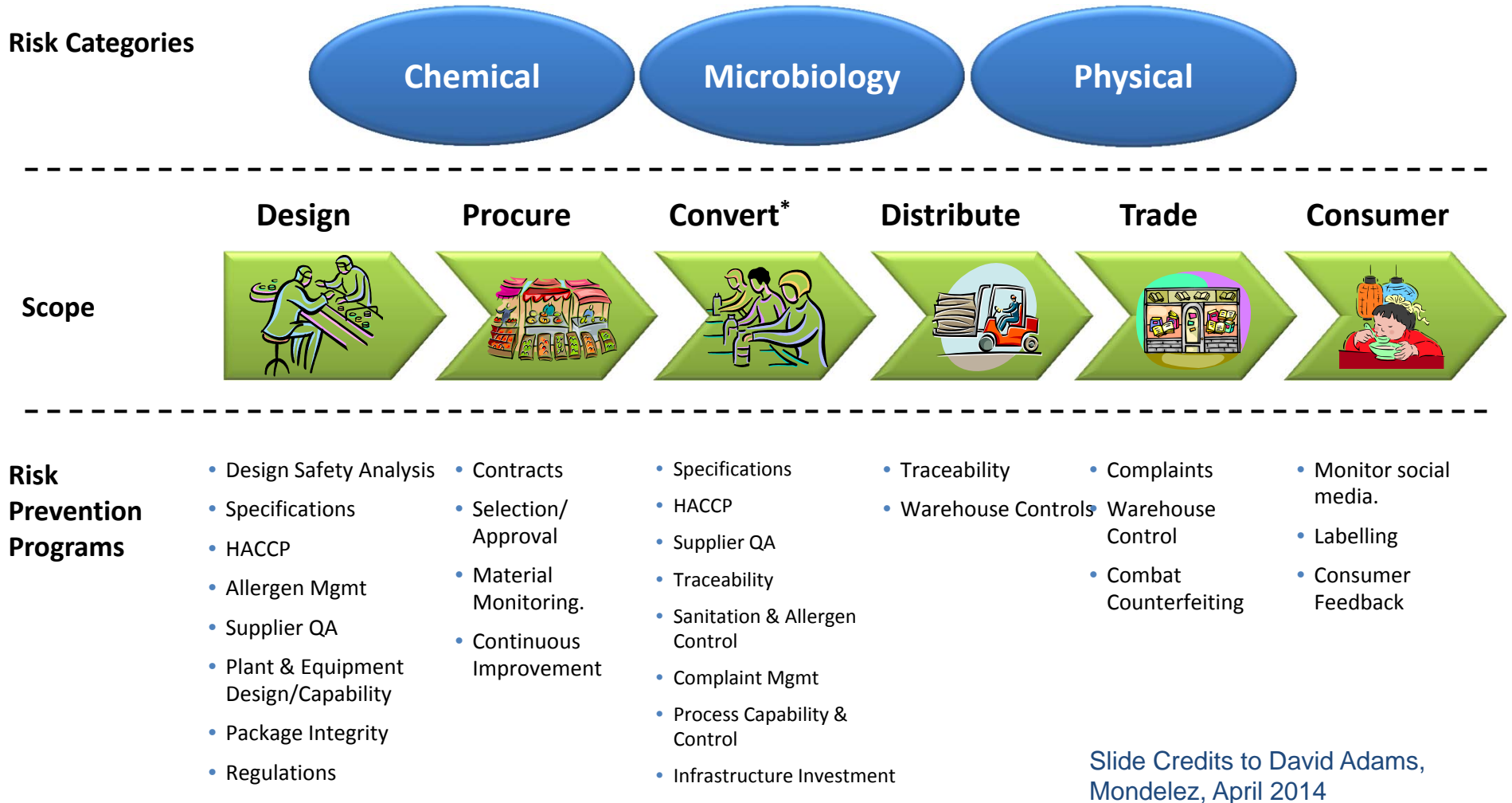
What is Food Safety versus Food Defense?

Food Safety - these are the well known steps for raising, handling, preparing, and storing food to prevent unintentional outbreaks of foodborne illness

Food Defense – the other side of safety. Taking precautions against the intentional contamination of food safety chain

- ...is an outbreak intentional or accidental? How long does it take to know?
- ...does it matter to the viability of your business?

An Integrated Approach Focuses on Preventative Systems across the Quality Chain



Slide Credits to David Adams, Mondelez, April 2014

**Applies to internal & external plants*

FDA Food Defense Plan Builder

CARVER + Shock “A Scoring System for Vulnerability to Risk”

- *Criticality* - measure of public health and economic impacts of an attack
- *Accessibility* - ability to physically access and egress from target
- *Recuperability* - ability of system to recover from an attack
- *Vulnerability* - ease of accomplishing attack
- *Effect* - amount of direct loss from an attack as measured by loss in production
- *Recognizability* - ease of identifying target

- **Shock** - is the 7th attribute to assess the combined health, economic and psychological impacts of an attack within the food industry

FDA Food Defense Plan Builder

- **Vulnerability Assessment Software for Manufacturing and Agriculture**








What It Does...

- Builds a process flow diagram of a farm or a facility to be evaluated
- Asks a series of questions for each node in the process and diagrams the process flow
- Scores each attribute
- Sums them into an overall risk score

FDA Food Defense Plan Builder

- Agricultural Software starting templates**













Select the choice in the list below that best describes your farm operation. Use up and down arrows to select a file. Select the Open button to open the selected template file.

Template Name	Template Description
 Dairy + Feed Template	Dairy with feed process farm operation.
 Dairy Template	Simple Dairy farm operation.
 Grain Crop Template	Grain Crop farm operation.
 Layers Template	Layer Farm operation.
 Livestock + Feed Template	Livestock and Feed process farm operation.
 Livestock Template	Simple Livestock farm operation.
 Poultry Template	Poultry farm operation.
 Tree Crop Template	Tree crop farm operation.
 Vegetable Crop Template	Vegetable farm operation.

FDA Food Defense Plan Builder

- **Manufacturing Software starting templates**

Select the choice in the list below that best describes your operation. Use up and down arrows to select a file. Select the Open button to open the selected template file.

Template Name	Template Description
 All Beef Hotdogs Template	Template All Beef Hotdogs Template Description
 Animal Feed Mill Template	Template Animal Feed Mill Template Description
 Animal Slaughter Template	Template Animal Slaughter Template Description
 Apples Template	Template Apples Template Description
 Baby Food (Hot Fill) Template	Template Baby Food (Hot Fill) Template Description
 Bottled Water Template	Template Bottled Water Template Description
 Cereal Template	Template Cereal Template Description
 Chocolate Candy Bar Template	Template Chocolate Candy Bar Template Description
 Fish Stick Template	Template Fish Stick Template Description
 Fluid Milk Template	Template Fluid Milk Template Description
 Fresh Vegetable Template	Template Fresh Vegetable Template Description
 Fruit Canning Template	Template Fruit Canning Template Description

Select and click Open or Double click to open a template.

FDA Food Defense Plan Builder

Benefits...

- Use it as an Overall business planning tool
- Finds weaknesses and strengths and prioritize improvements
- Use it to study risk mitigation
- Easy to see where actions are needed
- Easy to up date
- Free updates

<http://www.fda.gov/food/fooddefense/toolseducationalmaterials/ucm295900.htm>

FDA website - Tools and Educational Materials

<http://www.fda.gov/food/fooddefense/toolseducationalmaterials/ucm295900.htm>

NMSU Response and Recovery Template

- FDA Grant from the Innovative Food Defense Projects (R18)
 - Jason Bashura, FDA Project Leader
- Developed at NMSU by the SW Border Food Safety and Defense Center

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NMSU Response and Recovery Template

- Preparation – assess vulnerability, understand threat, calculate risk and mitigate
- Response – some elements in common between food safety and food defense, competing investigations, no communication, leading to turmoil
- Recovery – planning should happen before any incident occurs... "Hope" is not a Plan

NMSU Response and Recovery Template

Traits

- Recovery starts before and continues long after the response phase is over
- Can destroy a business
- Food defense incident is different
- Burden is always on a business – hence this Plan

NMSU Response and Recovery Template

What is it...

- A Roadmap for Events and Information
 - ✓ Pre-Incident,
 - ✓ During the Incident
 - ✓ Post Incident
- Step-by-Step Guide to Manage a Response and Recovery Effort

NMSU Response and Recovery Template

What It Does...

- Step-by-Step Walk through to Manage a Response and Recovery Effort
- Asks a series of questions for each step of the process
- Answers Result in a Customized a Response and Recovery Plan document for the owner

NMSU response and Recovery Template

Benefits...

- Raises Awareness of roles, responsibilities and authorities
- Use it as an Overall business planning tool
- Finds weaknesses and strengths and prioritize improvements
- Easy to see where actions are needed
- Easy to up date

Electronic copy available at:

<http://aces.nmsu.edu/ces/nmhs/resources-.html>

<http://aces.nmsu.edu/ces/nmhs/resources-.html>



Summary –

- Tools to Assess Business Vulnerability to food safety and food defense matters
- Overall good business planning tools for all purposes too