



**Beyond Food Safety Management** 

**Creating a Food Safety Culture** 



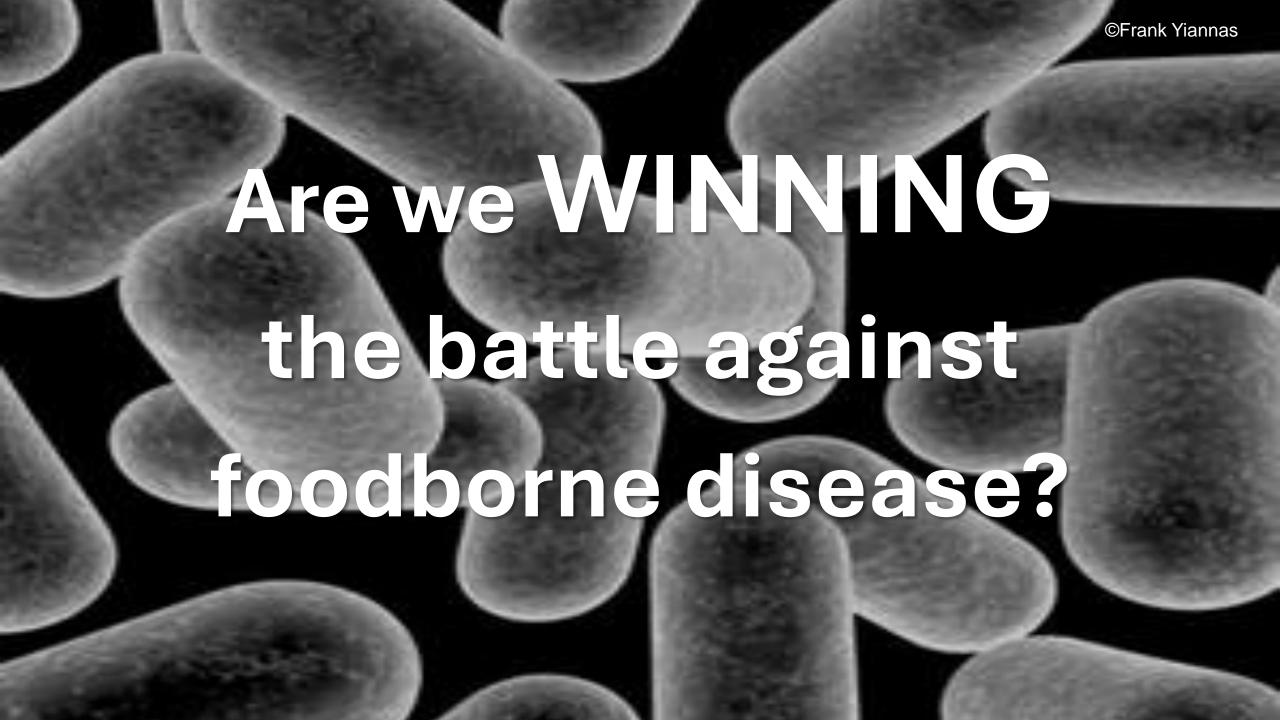
### **Lifetime in Food Safety**











#### Foodborne Pathogens 1900 - 1939

- Amoebiasis
- Botulism
- Brucellosis
- Cholera
- Hepatitis
- Salmonellosis
- Scarlet fever (strep)

- Staphylococcal food poisoning
- Tapeworms
- Trichinosis
- Tuberculosis, bovine
- Typhoid fever

Source: CDC, USA

#### In the News

Nearly 600 with Salmonella, 225 hospitalized and 15 deaths linked to Cantaloupe



These parents didn't know why their children had lead poisoning. An applesauce recall offered clues.

Onions are likely source of E. coli outbreak linked to McDonald's, federal agencies say; 15 additional cases reported



#### **Food Recalls**



An Analysis of Food Recalls in the United States, 2002–2023

John DeBeer \* & M., Erika Rene Blickem b., Yadwinder Singh Rana c.,
Deborah Mona Baumgartel d., Jon W. Bell \*

- 35,548 Total Recalls
- Number 1 reason Listeria (7, 844)
- Equivalent to 5
   Recalls per Day

## Trust in Government Assurance of Food Safety Hits Record Low

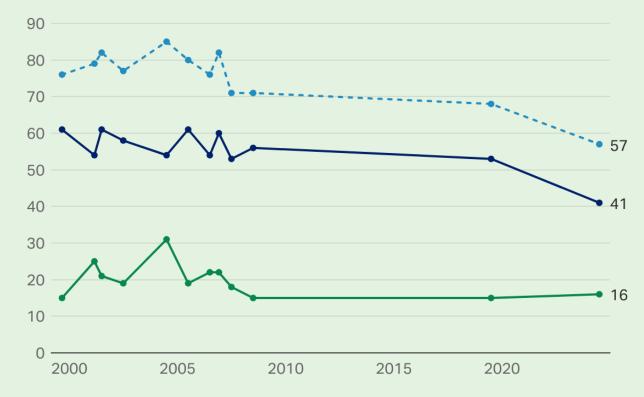
Americans' faith in the safety of food at grocery stores also declines



## Americans' Confidence in Government to Ensure Safety of U.S. Food Supply

How much confidence do you have in the federal government to ensure the safety of the food supply in the U.S. -- would you say you have a great deal, a fair amount, not much or none at all?

— % A great deal — % A fair amount -- % A great deal/fair amount

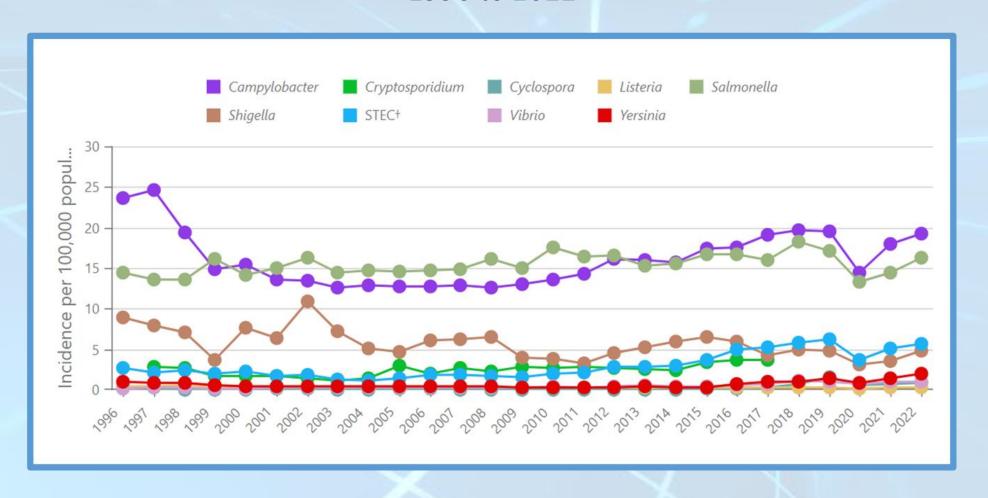


Response categories "not much" and "none at all" are not shown.

Source: GALLUP

#### Incidence of Foodborne Illness in the United States

The Past Two Decades 1996 to 2022



**Source: CDC FoodNet** 

#### Making the Invisible Visible



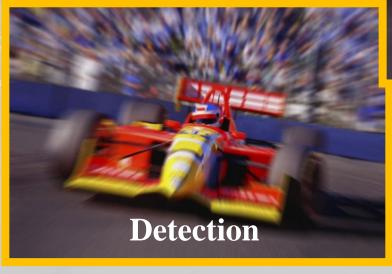
COVER STORY: ANATOMY OF AN OUTBREAK: How salmonella sleuths solved a deadly mystery

Credit cards led investigators to source of E. coli outbreak



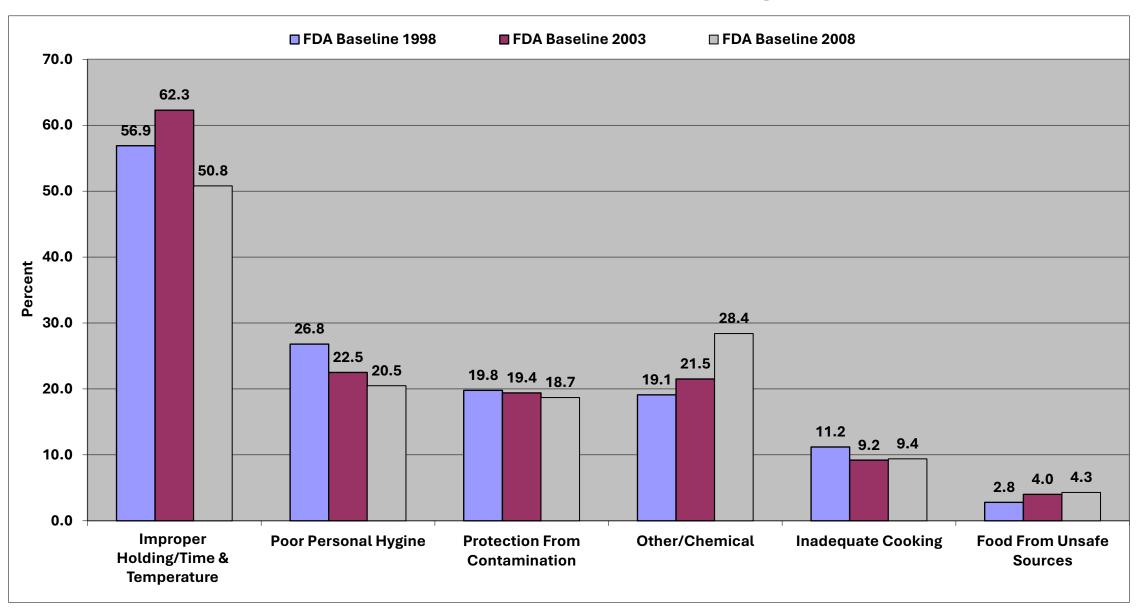
Online tools may have warned of listeriosis outbreak: study

#### The Race





## Retail Food Deli Departments Percent Observations Out-of-Compliance



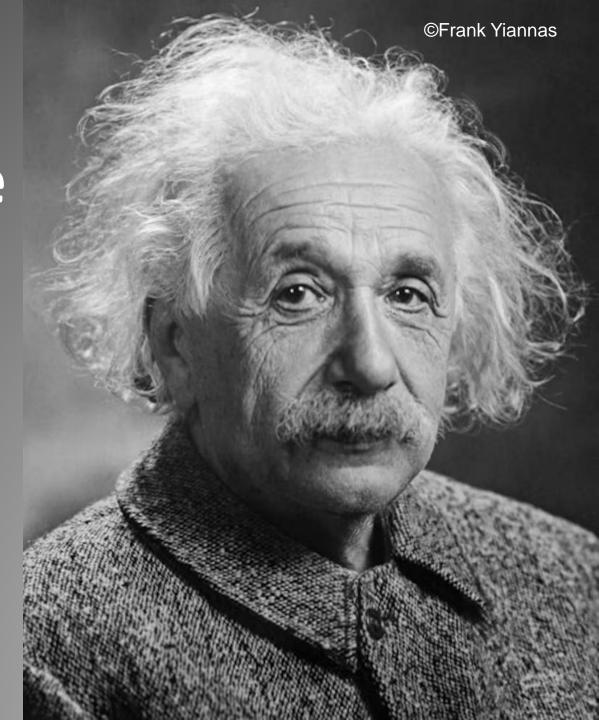
# We Need

# to ReInink

Food Safety

"Insanity is doing the same thing over and over and expecting different results."

- Albert Einstein





#### **Traditional Food Safety Strategies**

Training

Inspections

Micro Testing



"If the only tool you have is a hammer, you tend to see every problem as a nail."

> - Abraham Maslow Psychologist 1908 - 1970







## Food Safety = Behavior



#### **Overview**

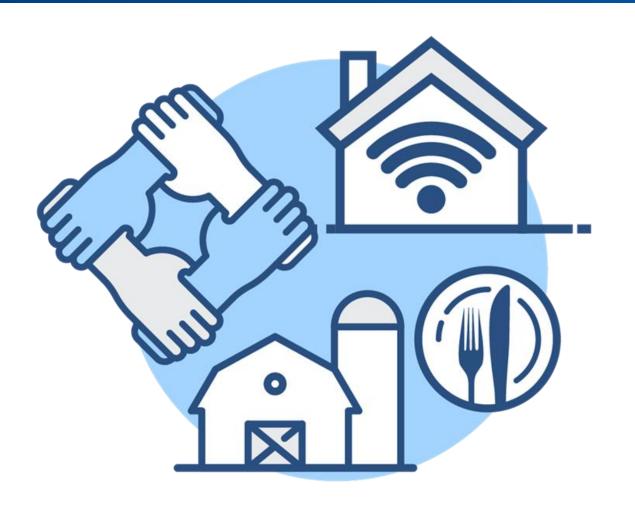
- 1. What is culture?
- 2. Why the focus on culture?
- 3. Who creates culture?
- 4. How is a safety culture created?



### What is a Food Safety Culture?



#### What is a Food Safety Culture?



Culture is shared patterns of thought and behavior that characterize a social group, which are learned through socialization processes and persist through time.

- Social & Behavioral Foundations of Public Health

#### **Overview**

- 1. What is culture?
- 2. Why the focus on culture?



#### Why the focus on culture?

In major safety incident investigations, an underlying root cause is

- a) faulty design
- b) operator error
- c) improper training
- d) organizational culture



#### Why the focus on culture?

US oil spill inquiry chief slams BP's 'culture of complacency'





#### **GM Recall Probe to Blame Cultural Failings**

Columbia Report Faults NASA Culture, Government Oversight





# Food Safety Culture





#### **Overview**

- 1. What is culture?
- 2. Why the focus on culture?
- 3. Who creates culture?



#### Who Creates Culture?

"Organizational cultures are created by leaders, and one of the most decisive functions of leadership may well be the creation, the management, and – if and when necessary – the destruction of culture."

- Edgar Schein Organizational Expert

#### **Overview**

- 1. What is culture?
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# "Food safety culture is a choice."

- Frank Yiannas Food Safety Culture, 2009



#### Food Science + Behavioral Science

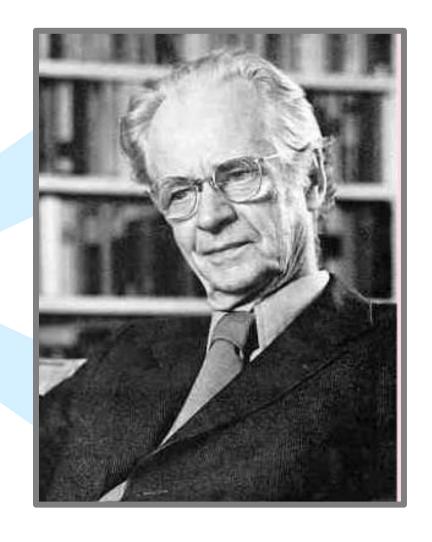
Traditional Food Safety Management	Behavior-Based Food Safety Management
Focuses on processes.	• Focuses on processes and people.
Primarily based on Food Science.	Based on Food Science, Behavioral     Science, and Organizational Culture.
Simplistic view of behavior change.	Behavior change is complex.
• Linear cause and effect thinking.	Systems thinking.
Creates a food safety program.	Creates a food safety culture.

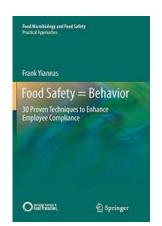


Source: Yiannas, Food Safety Culture

# "Behavior change is complex."

- B.F. Skinner





#### Attributes of a Food Safety Culture

- 1. Create Food Safety Expectations
- 2. Educate & Train All Associates
- 3. Communicate Food Safety Frequently
- 4. Establish Food Safety Goals & Measurements
- 5. Consequences for Food Safety Behaviors



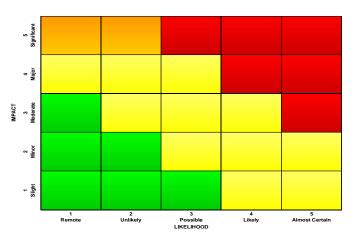
#### 1. Create Food Safety Expectations

"High expectations are the key to everything."
- Sam Walton





#### **Risk Assessment**

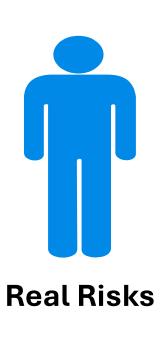




#### 2. Educate & Train Associates on Food Safety

I cannot teach anybody anything; I can only make them think.
- Socrates







#### **Food Safety Training & Education Concepts**

- 1. Education verses Training
- 2. Focus on Changing Behavior
- 3. Real Risk & Real Consequences
- 4. Stories instead of Statistics
- 5. At Home & At Work Food Safety
- 6. Completion vs. Commitment
- 7. Make it Visual, Simple, & the Social Norm
- 8. Learn from the Wrong Way & the Right Way

#### 3. Communicate Food Safety Frequently

When dealing with people, remember you are not dealing with creatures of logic, but creatures of emotion. - Dale Carnegie







WIRE/Event Calendar/Leadership Weekly/Food Safety Message





#### 4. Establish Food Safety Goals & Measurements

"Set high goals, encourage competition, and then keep score." - Sam Walton





## Leading Indicators

#### **Store Self Checks**



#### **Food Safety Audits**





Walmart Food Safety Scorecard

**Total Company** 

Category	YTD FY 09	YTD FY 10	Comp	Target	Rating
Regulatory	0.64	0.59	-0.05	< .60	



## Digitize

#### Handheld Technology



#### 5. Consequences for Food Safety Behaviors

The consequence of an act affects the probability of it occurring again.







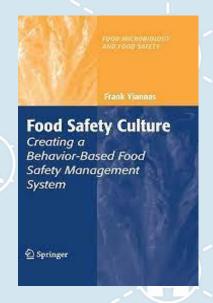


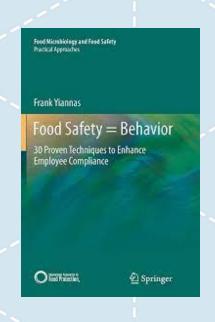


Disciplinary Guidelines



#### Let's Stay Connected









www.frankyiannas.com



"Alone, we can do so little; Together, we can do so much."