

Bending the Curve of Foodborne Illness

New Era of Smarter Food Safety



@FrankYiannasFDA





Thank You!





**FDA FOOD SAFETY
MODERNIZATION ACT**

2011 -2021



A Modern Approach for Modern Times



People-Led * FSMA-Based * Technology-Enabled

Food Safety



Revolution

Tech-enabled Traceability



Smarter Tools and Approaches for Prevention and Outbreak Response



New Business Models and Retail Modernization



Food Safety Culture

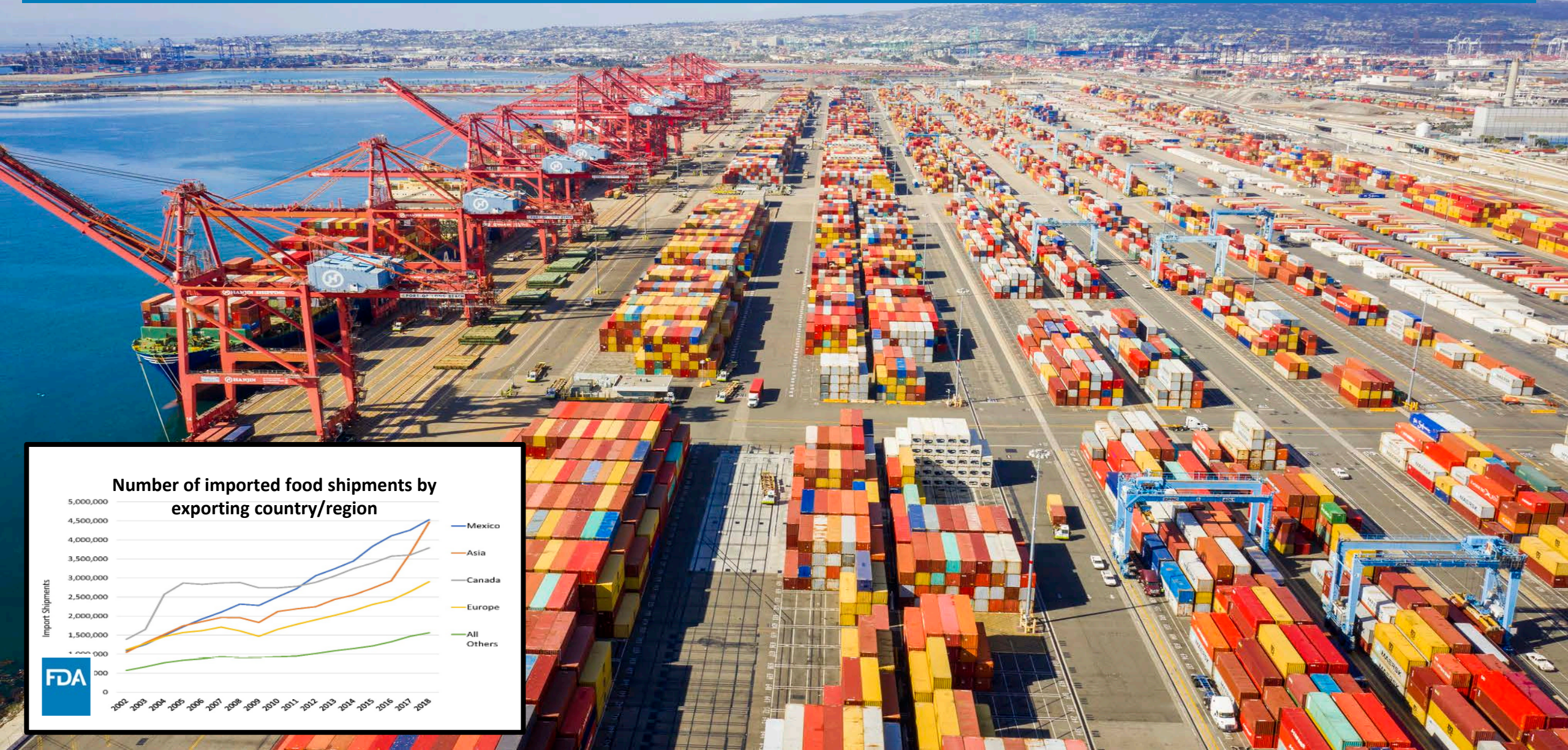
Proposed Food Traceability Rule



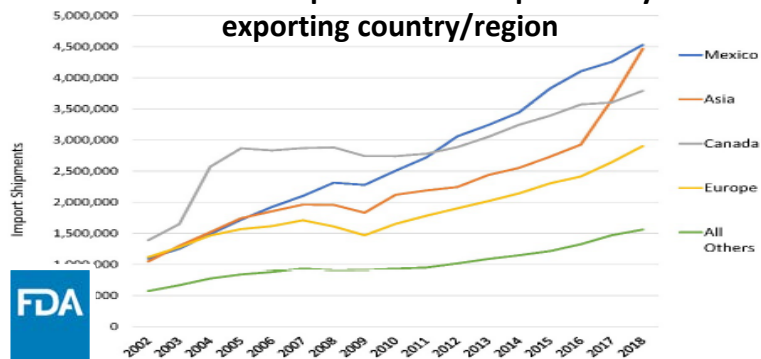
Tech-Enabled Traceability



Using AI to Prevent Violative Imported Foods from Entering Commerce



Number of imported food shipments by exporting country/region



FDA

Inspection Modernization

“Consistent with FDA’s New Era of Smarter Food Safety vision, we plan to further leverage new and emerging technologies and data-driven, predictive analytical approaches to strengthen our compliance oversight work.”

Resiliency Roadmap for
FDA Inspectional Oversight

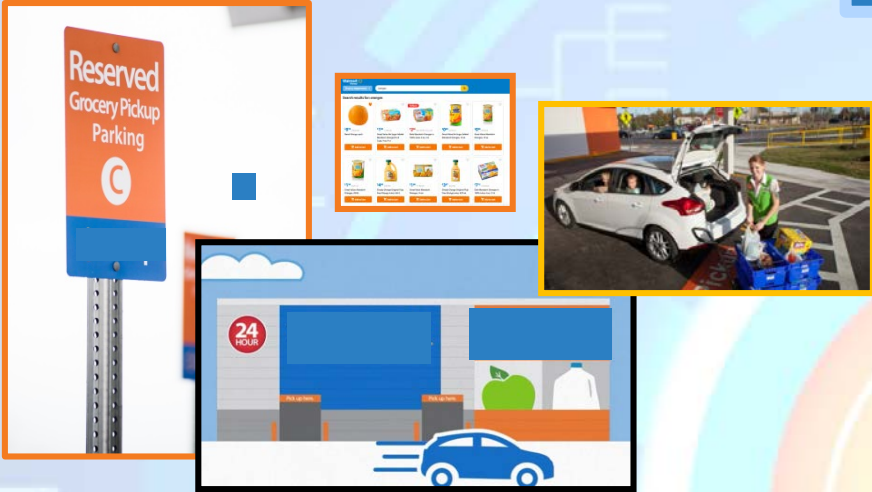


MAY 2021

FDA U.S. FOOD & DRUG
ADMINISTRATION

New Business Model Summit

Grocery Pick-Up



Home Delivery



Novel Delivery



Home Shipping & Meal Kits



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**

Bending the Curve of Foodborne Illness

Percent Change in Incidence from 2016-2018 to 2019 (U.S.)

Campylobacter	+13
Salmonella	+5
STEC	+34
Shigella	+7
Yersinia	+153
Vibrio	+79
Listeria	+1
Cyclospora	+1209



Source: CDC FoodNet

working together to break the cycle of outbreaks tied to leafy greens

Prevention

Response

Addressing Knowledge Gaps



Agricultural Water Standard

- **Proposed rule on agricultural water quality standard expected this year.**
- **Goal - reduce burden, increase flexibility, protect public health**



Cyclospora Prevention, Response, & Research Action Plan



Cyclospora cayetanensis ▶

Photomicrograph courtesy of CDC

FDA scientists pioneered methods to detect *Cyclospora* in produce and agricultural water

**Working TOGETHER, we CAN create a
a more digital, traceable, & safer food
system.**

FDA

**U.S. FOOD & DRUG
ADMINISTRATION**