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Getting AI-Ready: Building the Data and Systems Foundation for Predictive Food Safety

Connecting Food Safety, Technology & Innovation

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Mara McVay

Senior Director, Processing & Quality Systems | Conagra Brands

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CURRENT ROLE

Leading Data & Systems for FSQRA and R&D

FSQRA Technical Operations

R&D Process Engineering

Our team connects product, process, systems, and data to deliver safe, scalable, quality products.

EXPERIENCE

Supply chain planning, enterprise systems, data analytics, engineering, food safety and quality, and R&D.

EDUCATION

B.S., Industrial Engineering

Purdue University

MBA

University of Illinois

FOOD SAFETY | QUALITY | OPERATIONS | DATA & ANALYTICS | INNOVATION | TEAMWORK

Food safety expertise & technology must work together to create safer food.

Conagra at a Glance

A diverse portfolio supported by a broad manufacturing network and varied processing capabilities

FROZEN

Meals, vegetables & desserts



SNACKS

Meat snacks & popcorn



GROCERY

Sauces, canned foods & baking



REFRIGERATED

Whipped toppings & refrigerated foods



DIVERSE PROCESSES

Thermal processing, freezing, baking, mixing, filling, packaging and sanitation

From Data Silos to Connected Systems

Pulling information from purpose-built systems into one simplified view

FoodLogiQ

Supplier & traceability

SampleManager

Laboratory results

SAP

Enterprise & manufacturing

Consumer complaints

Consumer signals

CONNECTED DATA FOUNDATION

Common definitions, governance, quality and traceability



ONE SIMPLIFIED VIEW

Every system tells part of the story. Connected data helps us see the whole story.

From Reactive to Proactive

Using analytics and AI to recognize risk signals earlier



01 REACTIVE

What happened?

Investigate after an event

02 ANALYTICAL

What patterns exist?

Connect and analyze trends

03 PROACTIVE

What may happen next?

Surface risk signals earlier



AI helps shift the focus from explaining the past to anticipating where attention is needed.

AI as a Force Multiplier

Helping food safety experts see more, focus faster and act earlier



Connected data



Food safety expertise



AI-enabled analytics

BETTER DECISIONS

- Process more information
- Spot hidden patterns
- Prioritize investigations
- Focus on higher-risk signals

AI scales expertise. It does not replace it.

Future Vision

Examples of how AI could strengthen predictive food safety



Environmental monitoring

Identify combinations of signals that may indicate increasing risk.



Consumer complaints

Recognize emerging product or quality patterns sooner.



Supplier risk

Highlight changes in supplier or material performance.



Manufacturing trends

Detect process deviations before they become larger issues.



Enterprise signals

Connect weak signals across systems that may be missed individually.

The goal is prevention, not simply faster investigations.

Building Trustworthy AI

AI is only as strong as the data, systems and governance beneath it

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01



TRUSTED DATA

Accurate, complete, consistent and fit for purpose

02



GOVERNANCE

Clear ownership, standards and access controls

03

EXPLAINABILITY

Traceable insights that experts can understand



04

VALIDATION

Performance monitoring for the intended use

05



HUMAN OVERSIGHT

People remain accountable for decisions



Questions & Discussion

What food safety challenge is AI best positioned to help solve over the next five years?



Getting AI-ready starts by building a trusted foundation that can turn information into action.

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