



AMERICAN FOOD
MANUFACTURING
SUMMIT 2025

TRANSFORMING QUALITY WITH AI

INSIGHTS, EFFICIENCY, AND
REAL-TIME MONITORING





LET'S MAKE
LIFE

Delicious

Kraft*Heinz*

We are
consumer
obsessed.

We dare
to do better
every day.

We champion
great people.

We demand
diversity.

We do
the right
thing.

We
own it.



Campbell Mitchell

Head of Food Safety & Compliance
Quality & Food Safety | Chicago, IL

LET'S MAKE
LIFE
Delicious
KraftHeinz

What makes my life delicious?

Kraft*Heinz*

Bringing people together around safe, trusted, and nourishing food.

Originally a Microbiologist, my key passion is improving Food Safety. With 30+ years of Quality & Food Safety leadership, I love developing mature food safety cultures worldwide. I have lived and worked in New Zealand, Australia, Saudi Arabia, the UAE and the USA. Born in New Zealand, my father worked for Shell Oil, and I grew up in Singapore, Brunei, Texas, Holland, Nigeria and Japan. I love travel, watching Rugby (All Blacks!), reading and fine wine!



Why Now? The Acceleration of AI in Food Manufacturin g



“We may see more technologically driven change in the next five years than in the last 50.”
Steve Brown

AI is not about replacing people — it's about *augmenting human judgment* for smarter, faster, and safer food systems.

REACTIVE

Responds to events that have already happened, such as incidents and accidents
(PAST)



PROACTIVE

Actively seeks the identification of hazardous conditions through the analysis of the organisations processes
(PRESENT)



PREDICTIV

E
Analyses system processes and environment to identify potential or future problems
(FUTURE)

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AI IN ACTION: FROM DATA TO FORESIGHT

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Partner collaboration: ECOLAB analytics

- AI-enabled monitoring detects anomalies before they affect production or product safety.
- Data from PLCs analyzed automatically — deviations trigger alerts in real time.
- Prevents over- or under-washing, reducing risk of contamination and rework.
- Enables data-driven scheduling: cleaning when it's needed, not just when it's planned.





TO DRIVE SMARTER[®] PRODUCTION

Ecolab[®]
CIP IQ[™]



“

When **quality**
speaks the language of
business,
everyone listens.”

- Joseph M. Juran



eROISM
by Ecolab

Annual Savings

Energy



1.3 billion BTU
(410 MWh)

Water



51 million gallons
(193,000 m³)

Greenhouse
Gases



170 metric tons

Productivity



66 days

Total Value Delivered

\$1.2M

Nestlé + Veeva: The Journey Towards Connected Food Safety Systems



Olivier Mignot

Vice President
Head of Global Quality Management

Nestlé

you identify those hazards that potentially are going to hit you,

Continuous Food Safety and Quality Solution

Quality Data Becomes an Appreciating Asset

VeevaQualityOne

Learnings: Converting into Benefits

Knowledge from learnings

Analytics: Insights to Learnings

Continuous learning from data



Quality Assurance

Unifying information in a single digital space

Quality Control

Digital access to all product quality data

Data Poor

Data Rich

Data Intelligent

Real-Time Tracking: Source-to-Shelf Visibility

Digital thread

Every test, every record, every approval
- traceable, validated, retrievable.

Traceability through connected systems and suppliers.



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KHAI |

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Reference Summary

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5. Curran J. (2017) *Exploring the Secrets of CIP*, Food Quality & Safety
6. Balakrishnan et al. (2025) *Trends in Food Science & Technology*, 163, 105153
7. *Journal of Food Engineering & Control Systems* (2025) *AI-Driven Monitoring and Predictive Analytics in Food Manufacturing Quality Systems*

Thank you!

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