

Using Assessment Data to Make Effective Risk Based Food Safety Decisions

July 8, 2021

Organized by: The Food Safety Assessment, Audit, and Inspection PDG

Sponsored by the



Moderator: Andrew Clarke, Loblaw Companies, Canada







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Webinar Housekeeping

- It is important to note that all opinions and statements are those of the individual making the presentation and not necessarily the opinion or view of IAFP.
- This webinar is being recorded and will be available for access by IAFP members at www.foodprotection.org within one week.



Today's Participants



Andrew Clarke

Loblaw Companies Limited, Canada

Andrew is the Senior Director Quality Assurance at Loblaw Companies Limited, a seasoned food safety professional holding a BSc Food Technology and an MSc Food Safety Management, a Fellow of the Institute of Food Science and Technology and a 10+ year member of the International Association for Food Protection (IAFP). Currently co-chair for the GFSI Stakeholder Advisory Forum and an active contributor to the BRC Global Standards North America Advisory Board for many years. In 2020 the recipient of the IAFP Harold Barnum Industry Award, awarded for dedication and outstanding service to the public, IAFP and the food industry.



Michael Wilson

BRCGS, UK

Michael Wilson has worked in the assurance service industry for more than 20 years where he has worked with the worlds' leading brands; manufacturers and retailers helping them measure, understand and effectively manage risk within their own business and their extended supply chain. With a background in primary production, Mr Wilson has traversed the value chain working with stakeholders literally from "farm to fork". During this time, he has helped develop rigorous programs to mitigate risk and secure trust between the key role-players in the production; supply and sale of food around the world. Along with expertise in food safety management, Mr Wilson has also developed programs to address ethical trade and environmental stewardship within the global food and FMCG supply chains.

Mr Wilson is currently the Global Business Development Director for BRCGS, a leading provider of rigorous assurance services.

Today's Participants



Jennifer Lott

BSI, USA

Jennifer Lott is the Senior Service Delivery Director for Food, Retail, and Customized Audits at BSI Group supporting Certification and Tailored Solutions.

Jennifer's is an accredited Lead Auditor and Trainer with over 25 years' experience GMP, Codex Alimentarius, FSSC 22000 Manufacturing and Packaging, RSPO, 21 CFR 111, 21 CFR 117, 21 CFR 210-211, ICH Q7, WHO GDP, EudraLex, ISO 15378, ISO 22716, BRC GS Consumer Products, BRC GS Storage & Distribution, BRC GS Packaging, BRC GS Agents & Brokers and is also a BRC ATP.

Jennifer received her B. Sc. Chemistry from the College of Mount St. Joseph in Cincinnati, Ohio and has worked with L'Oréal, Givaudan Flavors



Lone Jespersen Ph.D

Cultivate SA, Switzerland

Lone Jespersen is principal and founder of Cultivate SA, an organization dedicated to helping global food businesses make safe, great-tasting food through cultural effectiveness. She has significant experience with manufacturing, having previously spent 11 years with Maple Leaf Foods leading the execution of the company's food safety strategy and operations learning strategy and prior to that engineering and operations roles in the global automobile industry. Lone holds a Master's degree in mechanical engineering from Syd Dansk University, Denmark, a Master of Science in food science from the University of Guelph, Canada and a Ph.D. in culture enabled food safety with Dr. Mansel Griffiths at the University of Guelph, Canada. She led the Global Food Safety Initiative (GFSI) technical working group "A Culture of Food Safety", currently the chair of the International Association of Food Protection (IAFP) professional development group "Food Safety Culture", and the technical author on the BSI PAS320 "Practical Guide to Food Safety Culture."

BR@S

The Power of **Data**

Using Assessment Data to make effective riskbased food safety decisions

Science for a safer world.

Mike Wilson

Global Business Development Director

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IAFP Webinar

Using Assessment Data to make effective risk-based food safety decisions

PART I - WHY?

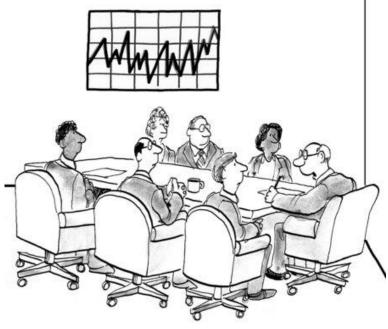
- Introduction
- Establish some context
- Set the scene

PART II - WHAT & HOW?

- What data do we currently have access to?
- How are we using it?

PART III – Where are we now and Where do we want to get to?

- Current status
- Future vision



"At least we are consistently inconsistent."

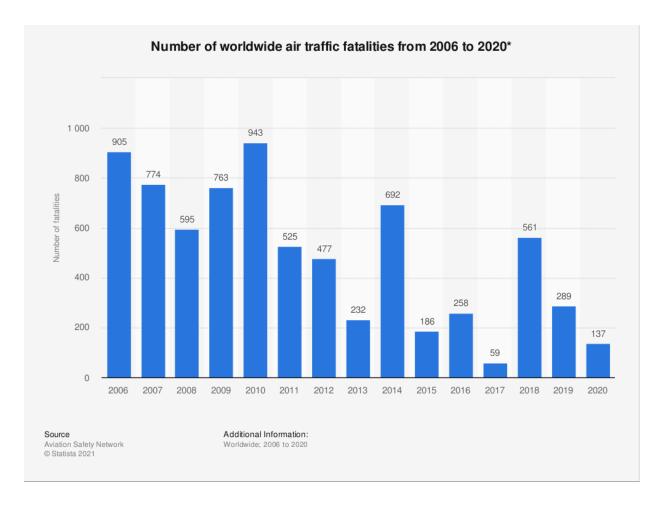
KEY QUESTION:

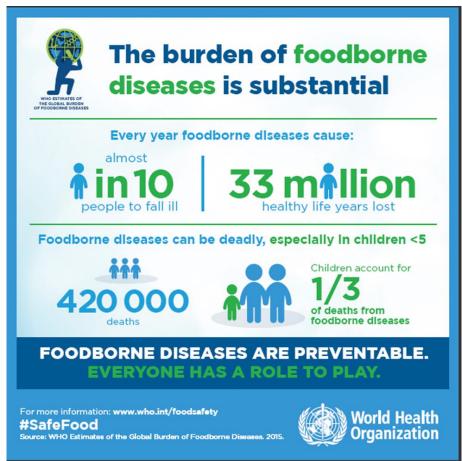
How do we use assessment data to provide actionable insight and drive positive impact?



WHY is this important?

Some context...

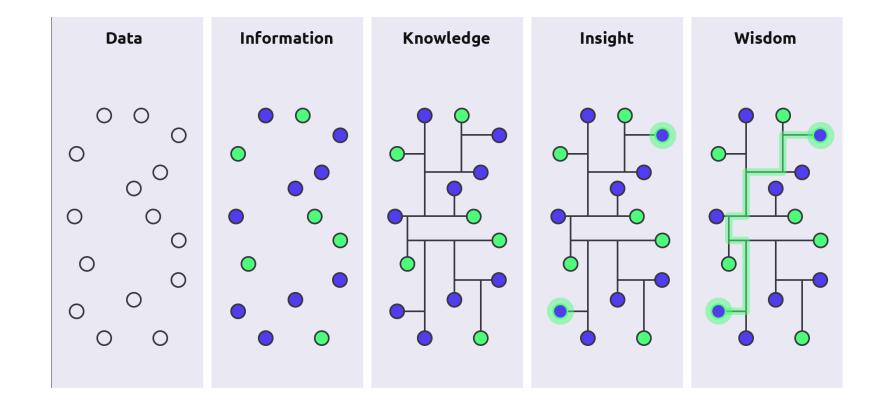






Giving data meaning

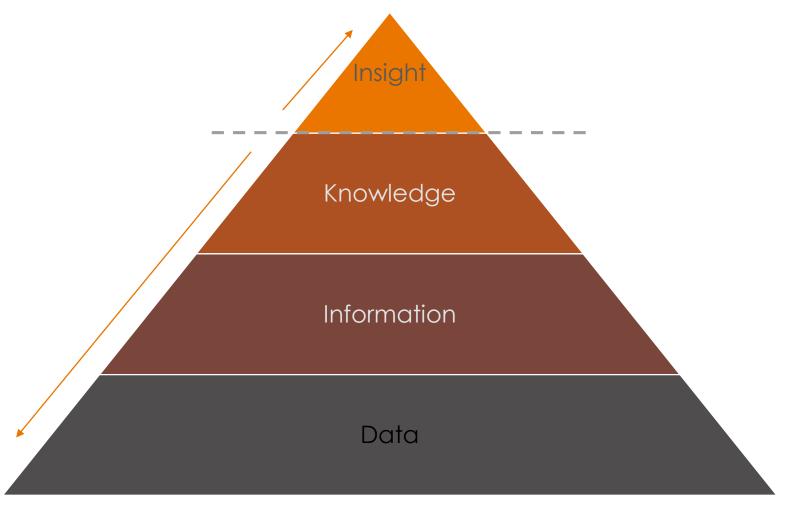
Making sense of it all...





Knowledge Pyramid

Turning Raw Data into Actionable Insight



Application:

I'd better check the oven and turn up the temp

Context:

The temperature needs to remain at or above 70°Celsius to remain safe

Translation:

The cooking temperature of the oven has dropped

Raw Data:

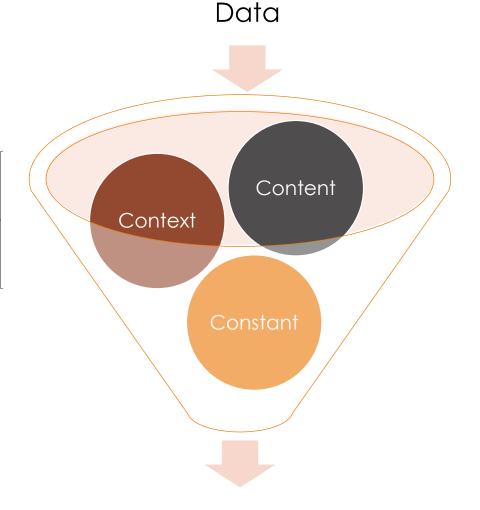
63°Celsius



Giving Data Meaning

Key Characteristics of Data

The circumstances relevant to the event e.g. Cooking 50kg's of Chicken in an electric oven Vs 5kg in a pot or on a grill



The event to which the data relates e.g. Cooking Chicken

Useful Information



Some Examples...

Context – Sources of data across spectrum of value chain

1996

BRC Global Standards was set up to reduce audit duplication by UK retailers 2000



Food Safety first standard to be recognised by GFSI 2003



Consumer Products first published 2014



Agents and Brokers first published 2015



e-learning launched 2017



Food Safety Culture Excellence launched 2018



Acquisition of the Allergen Control Group Inc. (AGC) New Service package launched 2020



Plant-based Standard Published
Tell BRCGS
Confidential Reporting launched

Food safety first published



1998

Packaging and Packaging Materials first published



2001

Storage and Distribution first published



2006

Offices opened in USA and India

Acquired by LGC Group Retail first published





2016

START! Global Markets Food Safety Published



2018

BRCGS Branding Launched February 2019



Issue 3 Gluten-Free published

BR@S 2019

Ethical Trade and Responsible Sourcing Published

2020

Virtual training

launched



2019



Some Examples...

Over 30k Sites Worldwide – Global Context



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Some Examples...

Sources of Data – Where does our CONTENT come from

30,000 certificated sites	9 core schemes	locations	185,000 corrected non-compliances
1,840 auditors	Annual Audit Days	10,127 professional delegates	18 food safety categories
57% unannounced visits	94% satisfaction with auditors	13,217 trained by BRCGS academy	77 number of delivery partners

compliance site visits

130+
operating countries

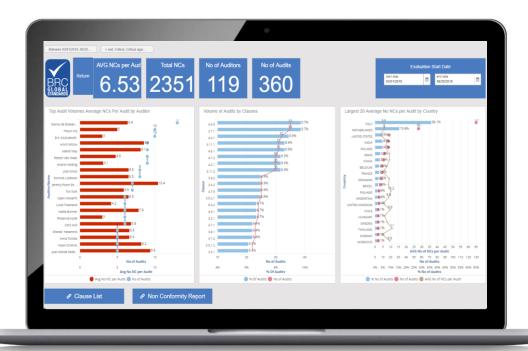


s III Billions \$ NESCAFÉ \$28.5E Google \$167.7B 8.9B AT&T ***Mobile** \$41.3B \$125.3B verizon√ \$205.5B ntel) Making Data ORACLE amazon Accessible. \$32.2B Now we've got it; what do we do with it? **IAFP Webinar July 2021** Packaged Goods howmuch net

How do we currently use this data?

Turning data into actionable Insight

DASHBOARD AUDITOR ANALYSIS



Analyze trends in Non-Conformities and auditor performance

- Average NCs per auditor (Top 20 by
- volume)
- Volume of audits by NCs
- NCs by country

Clause List – Instantly find the clause reference.

Non Conformity Report

BENEFITS

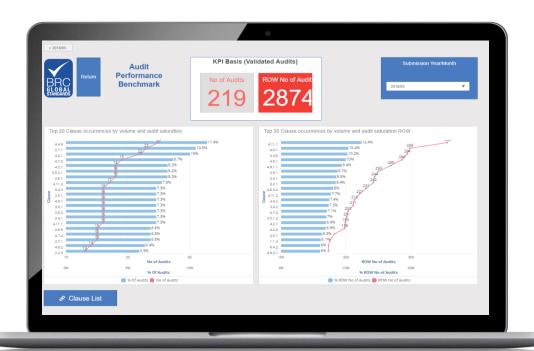
- Data is highly portable and can be scheduled to be sent to key internal stakeholders
- KPI's and statistics perfect for compliance checks and measuring auditor calibration
- Data mining opportunities for training and publishing. Segment data by scheme, country and tell prospective sites of likely problem areas
- Marketing can use rich content to create valuable insights to generate leads
- Brand owner assurance demonstrate how your auditor experience is consistent globally



How do we currently use this data?

Turning data into actionable Insight

DASHBOARD BENCHMARK & KPI



Performance Benchmark compares

- Audit KPI's
- Non-conformity clause occurrence vs ROW
- Grade volume vs ROW
- Audits by standard vs ROW

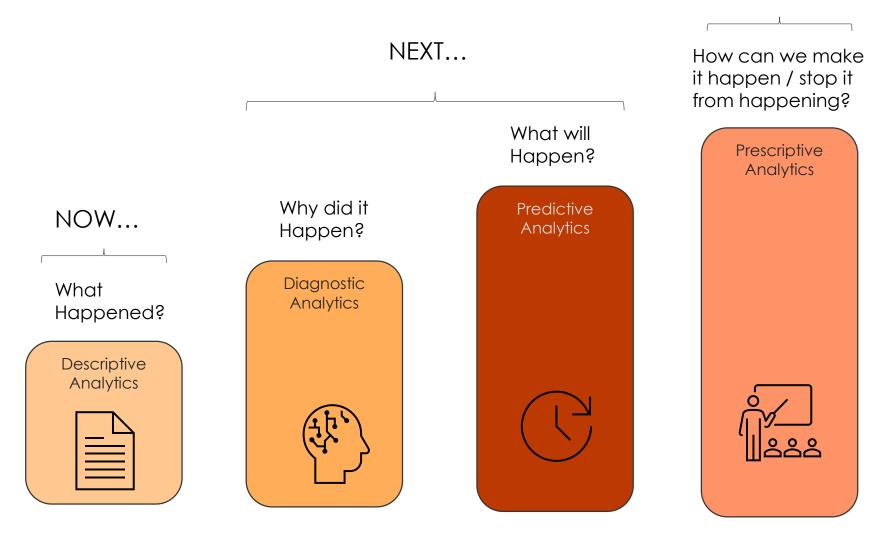
BENEFITS

- Create your own value-add benchmark report by offering common non conformities, grade profiles and site numbers by scheme, country and category
- Potential additional revenue charge for the benchmarked audit report
- Market Position A real point of difference for a CB that uses data to drive new business and increase renewals



Where are we now & Where do we want to get to?

LATER...





Brand Confidence Starts With A Conversation.

At BRCGS, our definitive Global Standards underpin brand reputation through compliance. To instil greater confidence in your brands and manage your risks in rapidly changing times, start a rewarding conversation with us.

Start the conversation:

+44 (0)20 3931 8150 contactus@brcgs.com









From Short Term to Major Shift

Great Depression

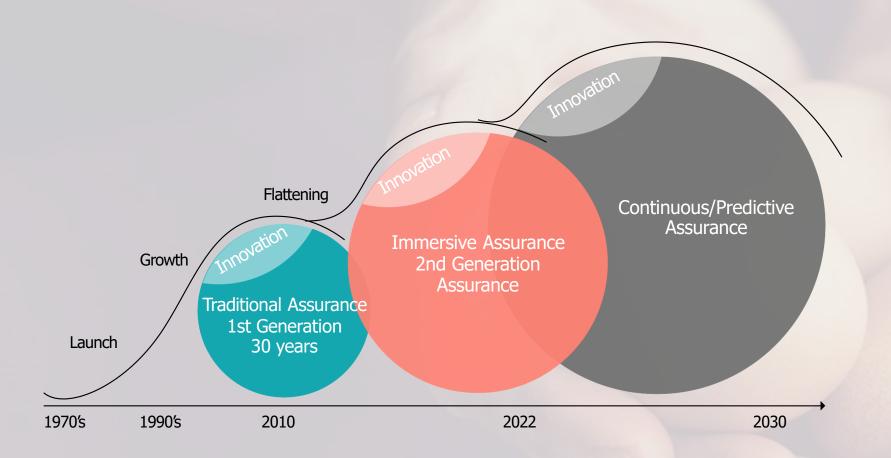
Military-Industrial Complex

Identified Risks

9/11 Attacks

COVID -19 Pandemic

Assurance Types



Traditional Assurance

- Quality is a separate function
- Focus catching issues
- Data is disjointed, separate systems

Immersive Assurance

- Quality is everyone's job
- Focus on identification, isolation, and mitigation
- Continuous Improvement
- Data is better harmonized and organized

Continuous/Predictive Assurance

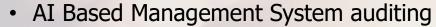
 Embedded connected technologies will model, assess, and predict improvement opportunities.

Assurance Tools

Immersive Assurance Tech to Auditor & Consultant

- Smart Wearables
- Remote Audit
- Connected Auditor/Consultant
- Audit Mobility Application

Continuous Assurance Tech to Tech Audit



- Cognitive Technology aassessments
- AI based image recognition & computer vision

Continuous Assurance Tech to Client

- Smart Factory & Connected Supply Chain
- Sensor / Smart Wearable Monitoring
- Cognitive Analytics / Monitoring
- Auto Reporting
- Immersive Operations support and call center

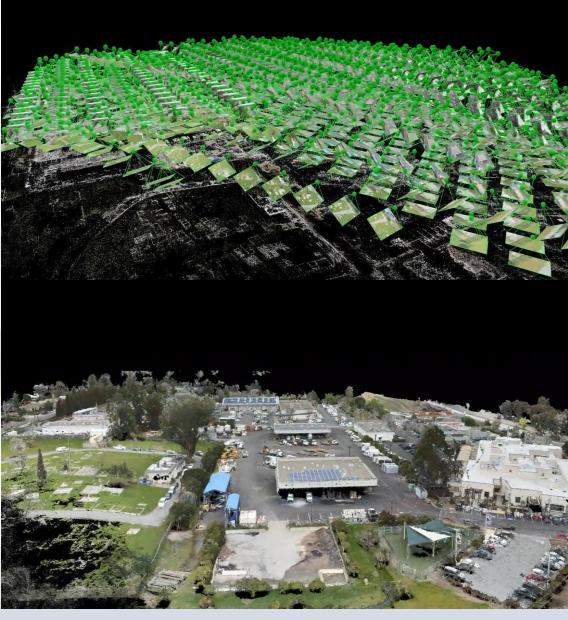
Spatial Solutions Overview

Drone: Comprehensive view of sites above ground

LiDAR: Indoor, to-scale 3D modeling



- conducts assessments through drone and LiDAR technology that helps visually identify hazard exposures, nonconformities, compliance concerns, and anomalies
- This technology provides high-resolution visuals to assess progress or change, identify anomalies, assist in site planning, and help ensure regulatory compliance
- Consultants/auditors can quantifiably assess sites through tools such as area and linear distance measurements.
- BSI tags and prioritizes each finding including the applicable regulation and recommended remediation measures





2020 BSI Immersive Review

122,000+

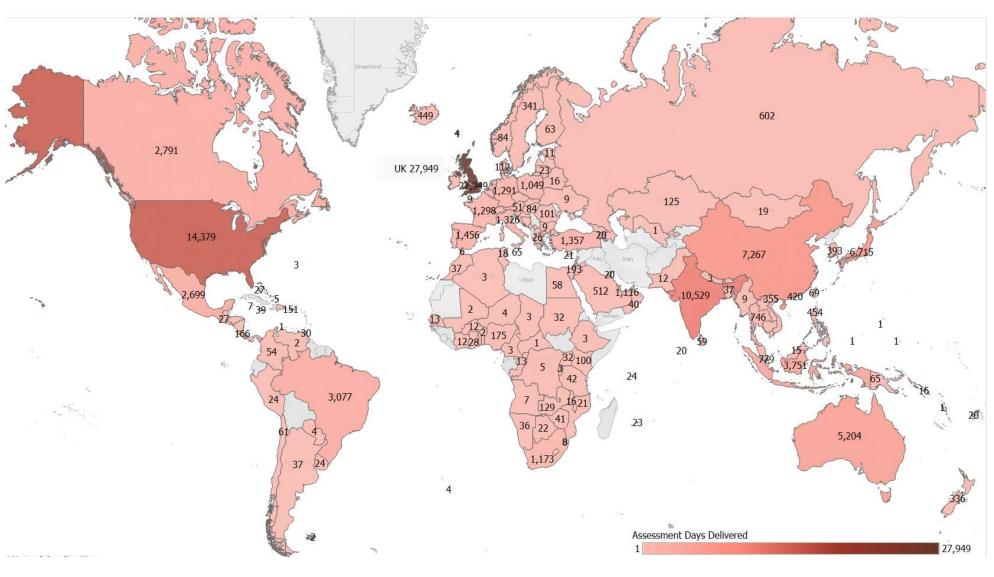
Days delivered remotely in 2020

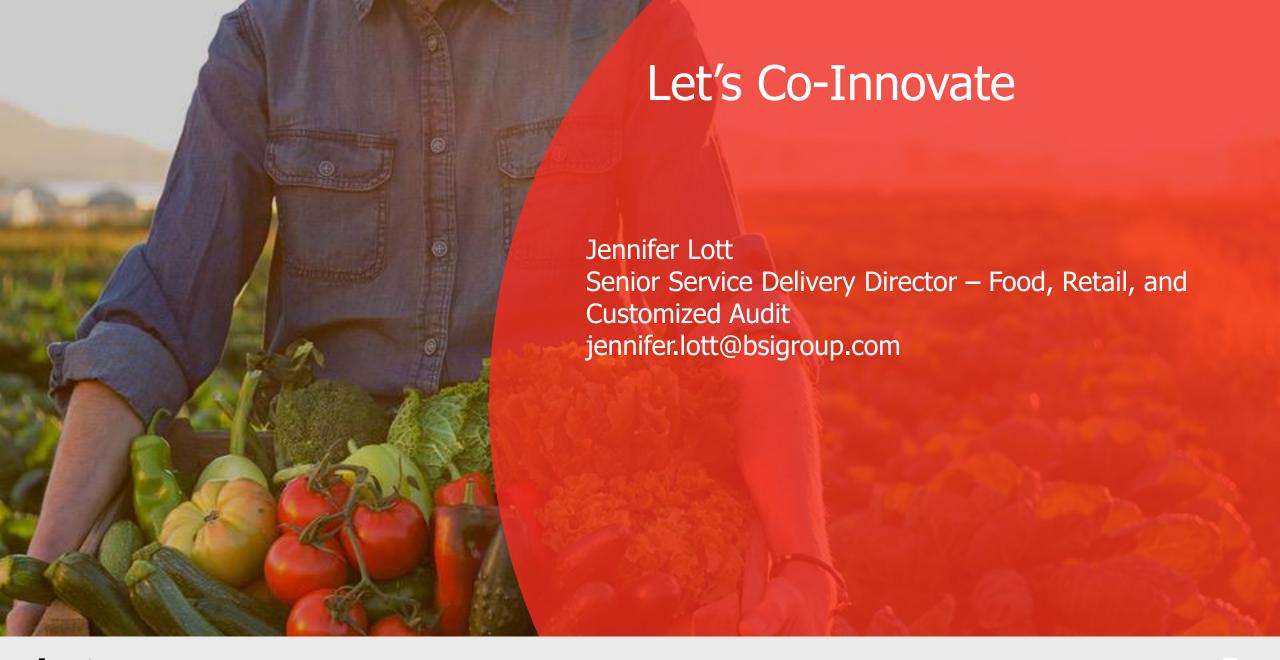
33,000+

Days delivered remotely delivered in 2021 Q1

166

Number of countries delivered remotely in 2020







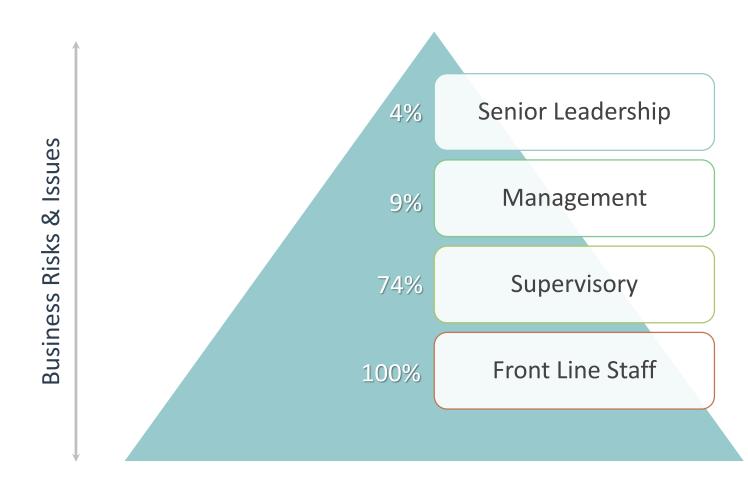


Does your data make your food safer?

IAFP July 8, 2021

Organisational culture and risk visibility





Data process















Collect

Record

Transfer

Analyze

Visualize

Take Action





Does your data make your food safer?

It depends ...

Case



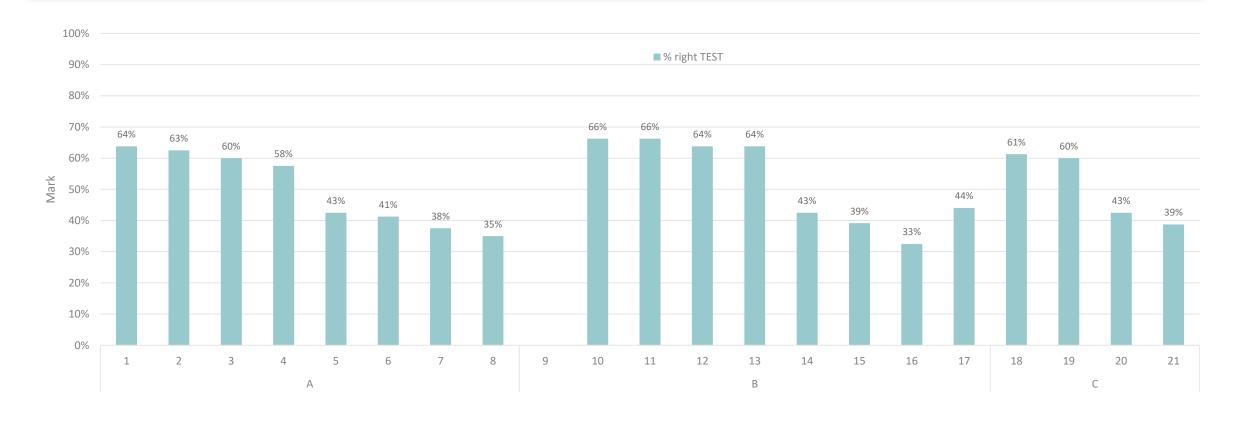




- U.S. based meat company with multiple manufacturing sites.
- Regular environmental monitoring positives at all sites.
- Leaders were found to anchor their low estimation of food safety risks in the 'few' EMP findings and review of customer complaints.
- Food safety risks were only discussed in the HACCP teams and not in management or executive meetings.

HACCP proficiency

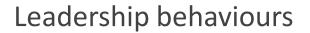
• HACCP Team proficiency range **33-66**%













Data process and Rhythm



HACCP Proficiency

Building measurable proficiency



Virtual 4 week learning program



30-minute sessions with in-plant homework

Team learning



Norms focus



HACCP proficiency (retest)

• HACCP team proficiency range **59-83%**





In summary





Does your data make your food safer?

It depends ...













Behaviours

Data process

Rhythm

Proficiency



Thank you

Lone Jespersen, Ph.D. lone@cultivatefoodsafety.com +41 79 246 0807



Questions?

Questions should be submitted to the presenters via the **Questions section** at the right of the screen.







Contact Information

- andrew.clarke1@loblaw.ca
- jennifer.lott@bsigroup.com
- lone@cultivatefoodsafety.com
- michael.Wilson@brcgs.com





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