

A Technology Approach to Supply Chain Risk

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Global Food Safety & Quality



Topics for Discussion



Do we understand risk?



Do we understand potential outcomes?



Why do we need technology to assess risk?



Solutions-Griffith Foods Perspective and Direction



What does the future hold?

Understanding the Risk

- Lack of Supply Base Transparency
- Supplier Cybersecurity Vulnerabilities
- Government Upheaval
- Climate Change
- Pandemic





Do we understand potential outcomes?

- Food Fraud
- Cost Implications
- Availability



Why Do We Need Technology?



Griffith Foods Solutions



LIMS (Laboratory Management System)



Foods Connected



Red Zone



Leatherhead



Horizon Scan



Selerant



Laboratory Information Management System (LIMS)

The Food Safety and Quality function requires software that contains all analytical test methods, product specifications and all related product results. The chosen system interfaces with the ERP system to effectively maintain control of conforming and nonconforming product while producing COAs (Certificates of Analysis) for finished goods that are required by our customers.

The top priorities for the new LIMS are security of data, standardization across organization, increased operational efficiency (data management, querying, dashboards, and reporting) along with enhanced communication across the organization.



LabVantage Solution

- From data retrieval to lab execution to sample lifecycle management, the LabVantage platform is built better to deliver the features and functionalities you need, without writing code. Our solution is easily configured to meet your specific requirements.
- See the many capabilities available in LabVantage
- [Sample Lifecycle](#)
- [Laboratory Execution](#)
- [Data Retrieval](#)
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Foods Connected

Overview

Foods Connected provides a cloud-based platform that manages the supply chain data from Field to Fork. Collating all information from our suppliers both on a supplier approval basis and raw materials data management into a database that provides a risk assessment required by BRC v8 and combines the detailed data for R&D and purchasing use. Currently Foods interacts with 6000 food suppliers within their on-line portal system.

Need

The Griffith Quality team will be able to produce complex specifications by report that currently have to manage from multiple sources mostly manually. The specifications will be customer bespoke and not require further manual interaction of the type needed today. The system will interact with Griffith Apps and the resident ERP.

Business Case

- ✓ The system would replace the current manual and inadequate supplier approval, raw material approval (RMS / RMA) and customer spec systems at Griffith Foods Europe
- ✓ The system is an automated portal-based communication with Suppliers improving efficiency in all sectors removing the need for manual data entry on supplier specs and supplier approval documentation



Red Zone

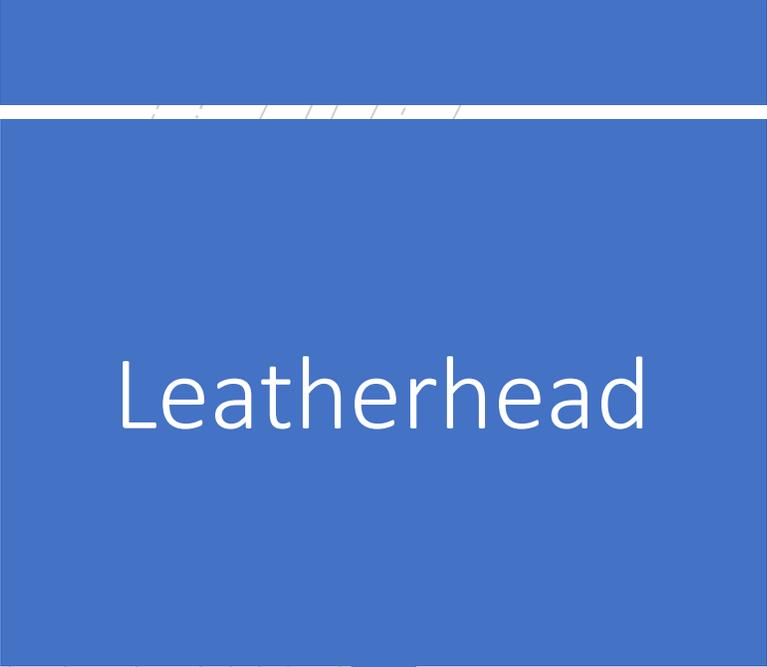
Red Zone is a Cloud based application which delivers a production system platform to Food & Beverage/CPG manufacturing operations. The production system platform monitors line/cell performance and merges this data with feedback from Operations, helping to drive continuous improvement activities.

Productivity

- Combining automated data from the production process with contextual information from the workforce to automatically calculate production efficiencies (OEE)
- Displaying real time efficiency (OEE) information in a variety of dashboards
- Standardizing reporting on run, shift, crew performance
- Supporting hourly daily, weekly, forums with production and productivity data
- Providing historical analysis on performance issues; top losses including downtime, speed and scrap related issues

Compliance

- Replacing manual paper-based checks with automated electronic checks
- Allowing checks to be scheduled, alerting the shop floor to checks that are pending and due
- Visibility via real time dashboards and automated alerts for checks that are missed, late or failed
- Supporting electronic signatures based on CFR 21 part 11 & BRC/ SQF requirements
- Linking to devices such as scales to automate the capture of quality data
- Integrating Statistical Process Control (SPC), enabling a complete range of statistical analysis including X bar and R
- Providing real-time visibility of control state based on industry recognized SPC rules



Leatherhead

- Expert advice
- The exclusive member helpline is staffed by experts in global regulations, product development, nutrition, food safety and consumer research. Leatherhead's renowned multilingual regulatory team cover over 120 countries and can advise on claims, labelling, additives and flavourings, contaminants, residues and compositional standards. The helpline is also regularly used by technical teams looking for advice on challenge testing protocols, the behaviour of specific ingredients, reformulation techniques, sensory testing methods and much more.
- Exclusive resources
- Only members get access to Leatherhead's updates and insight. Free white papers on topical issues are published weekly, Leatherhead Food News summarises all that members need to know and International Legal Highlights is compulsory reading for every regulatory manager each Friday.
- The new Member Digest is distributed weekly and reminds members about our events and training courses as well as providing links to white papers and other topics of interest.
- In addition, members have exclusive options to purchase Leatherhead's on-line regulatory guides, regulatory reports and research reports as well as subscribing to the science & news databases.
- Members can also access Leatherhead's expertise via the incident support team.
- Truly global service – languages, regulatory knowledge, cultural insight, local nuances, engagement with local regulators
- Meaningful interpretation of regulation with a view to helping you comply in order to bring products to market more quickly
- Regulatory advice informed by a deep scientific background
- Proactive alerts to upcoming and/or changing regulation/legislation
- Regulatory offerings are underpinned by other Leatherhead services in sensory, consumer insight and product innovation

Horizon Scan



Key Benefits

- Identify current risks
- Customizable daily email alerts
- Comply with FSMA
- Research suppliers, worldwide
- Rank analytical priorities
- Access 15+ years of historical data
- Reduce risk of recalls
- Protect YOUR Brand & Customers

Incidents Tracked

- Food Fraud
- Pesticides and drug residues
- Foreign objects
- Mycotoxins
- Allergens
- GMOs
- Heavy metals
- Dioxins, PCBs, PAHs

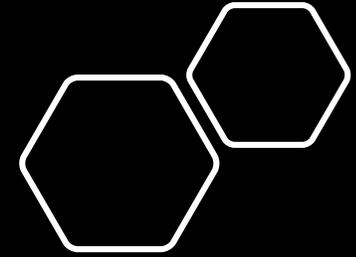
Horizon Scan Facts

- 550+ commodities tracked
- 180+ countries of origin
- 110+ global data sources
- 30+ new reports per day
- 110,000+ total incident records
- 22,000+ suppliers



selerant

create. comply. connect.



Food Regulatory Database

- Access a robust food regulatory database that contains additives, flavoring substances, pesticides and more, across global regions.
- Search and compare substance limits for a given product across multiple countries.
- Ability to save your searches and share your evaluation report with your team.

Access Global Legislation Toolbox

- On-demand access to numerous country specific legislative frameworks in one place.
- Access to details and links to original source documents
- Understand the legislative framework for a specific country
- User friendly: easy to navigate, saving users time and improving efficiency

Complete Instant Compliance Assessments

- The Compliance Assessment tool is used to check regulatory limits for food additives or contaminants against your existing product attributes, closing the loop between regulatory needs and product innovation.
- Perform go/no-go assessments on current and potential recipes and ingredients.
- Traffic lights visually identify if product attributes meet compliance standards.
- Understand how food additives and contaminant levels will affect finished product formula compliance during product innovation.

Food News Monitoring System

The Food News Monitoring System (FNMS) in the Compliance Cloud delivers compliance alerts for issues and regulation changes that matter most directly to the inboxes of your product experts (Regulatory, R&D and Quality team).

Aggregate Global News That Matters Most

- The FNMS scans hundreds of websites, international and national legislation sources, food safety authorities, research institutions, food business stakeholders, international and intergovernmental organizations, and more on a daily basis—so your regulatory experts don't have to.

Customize Regulatory Queries and Alerts

- Set customized email alerts regarding news, recalls and food safety updates that impact your product portfolio and distribution markets, delivering only relevant news to your team for quick action.

Food Law Library

The Food Law Library (FLL) enables users to create and access regulatory documentation that applies to their organization.

Access Regulatory Documentation

- Use a centralized repository to access the most critical documents that impact your product development, including:
- Food regulations
- Labeling regulations
- Food product standards
- Guidance documents
- Draft regulations
- Translations into English



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What Does the Future Hold?

- Internet of Things
- CRISPR
- Blockchain

