How IT Will Transform The Future of Food Safety

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Agenda

- Recent changes & trends
- The impact of IT on food safety
- Using IT to build your food safety management system
- The integration of various food safety systems
- Driving productivity & improvement

Recent changes and trends

Why IT Will Transform The Future of Food Safety?

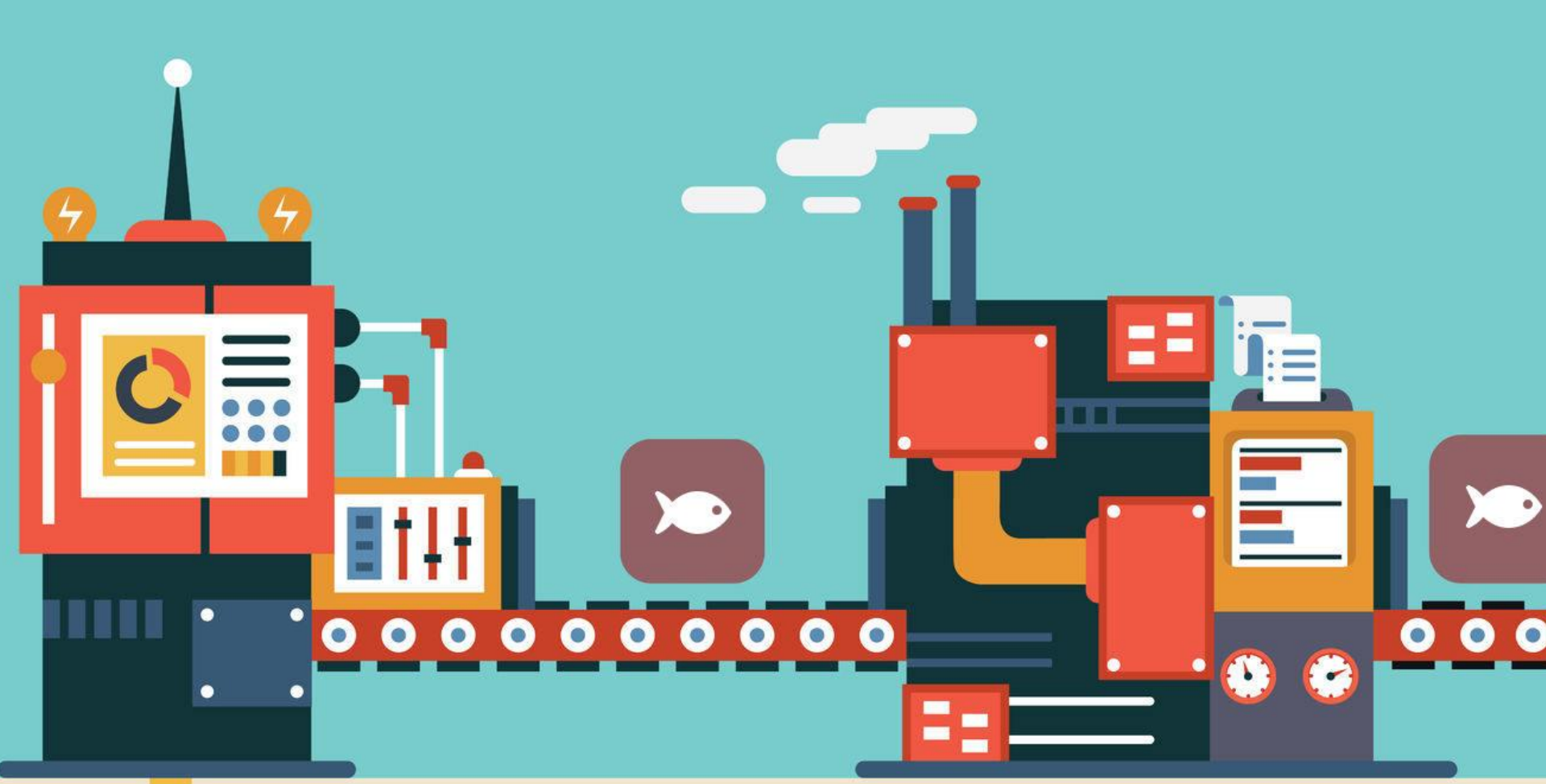
- Before we can explain HOW we have to understand and believe WHY and indeed IF?!
- A confluence of factors has occurred in the last 15 years and we believe this will inevitably lead to an IT lead transformation of food safety management over the coming 5 years or so.

The Confluence of Factors

1. A series of food safety failures over the last 15 years or so – BSE, dioxins, infant formula milk, Horsegate
2. The connected media world has made these incidents far more visible and engaged the public with catastrophic commercial consequences for some companies
3. Governments and food bodies have created legislation and regulation in response to 1. and 2. – GFSI, EU178, BRC, FSMA applying pressure to FBOs to ensure there are no more failures

The Changing Food Safety Landscape

4. Food safety management has changed from being a necessary evil with little commerical impact on an FBO to a necessary evil with potentially disastrous commercial impact
5. CFOs and CEOs now unquestionably recognise the importance of compliance
6. The cost of compliance is set to increase significantly so without increasing the human resources available to tackle the issue IT presents itself as the only solution...



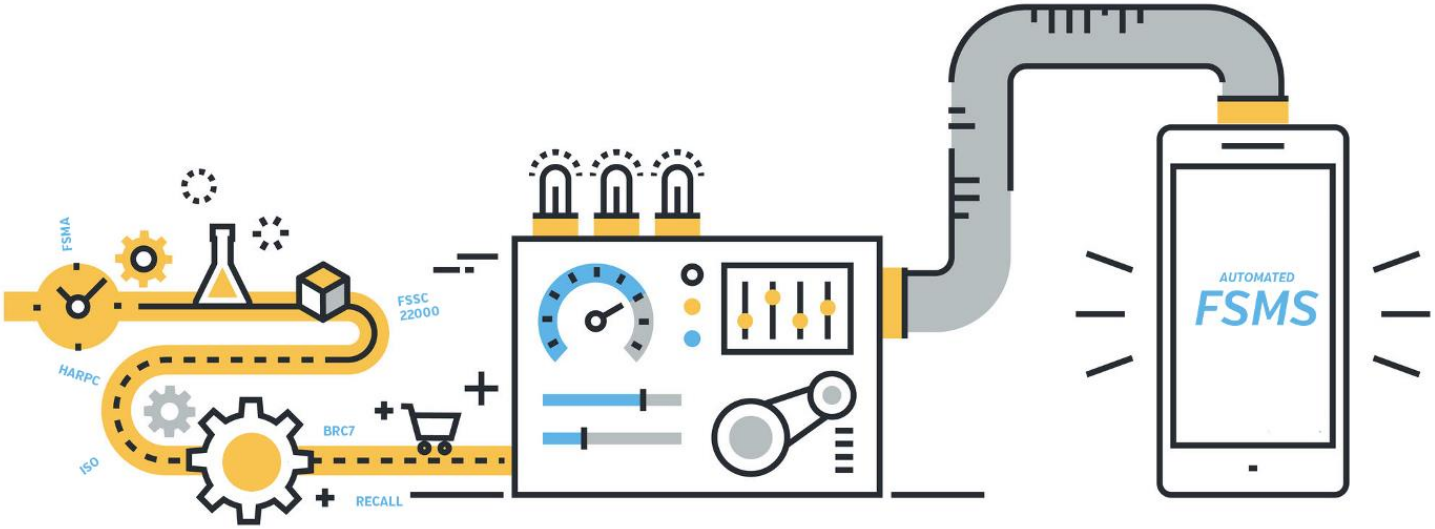
The impact of IT on food safety

The IT Led Development of Food Safety

- Once created food safety plans have to prompt the operator to complete them and then collate and report upon the outcomes accordingly
- The processes themselves are generally repetitive
- Both of these elements lend themselves to computerisation
- Plus – the cost of compliance via machines is far less than the equivalent labour intensive processes

How Will IT Transform The Future of Food Safety?

- We are now in a position to start answering this question!
- Once a clear impact on a busines's profitablity is determined then the requirement to address this drives innovation in IT
- This is the "Stick or Carrot" approach to system development and it inevitably applies here too



Using IT to build your food safety management system

Building a Food Safety Environment

- Whether you operate under FSMA, EU178 or GFSI rules you need to build a plan
- SF360 is pioneering an intelligent platform which will actually help you build your HACCP plan, PRPs etc. based on these principles with in built prompts and design characteristics included in the software
- Of course, being online as opposed to on paper, makes keeping and evolving the plan far simpler and more robust
- Big evolutionary impact in developing markets

Running and Reporting on the Food Safety Plan

- Manual systems simply don't work if you don't open the file which details and records the necessary actions
- Automated platforms prompt the operator to perform the task, greatly reducing the risk of failing to comply. Will become the norm
- A web based (distributed) and immediate reporting system means centralised management and reporting is now possible and will become the required standard across the industry within a few years – replacing both paper and spreasheets / Word documents

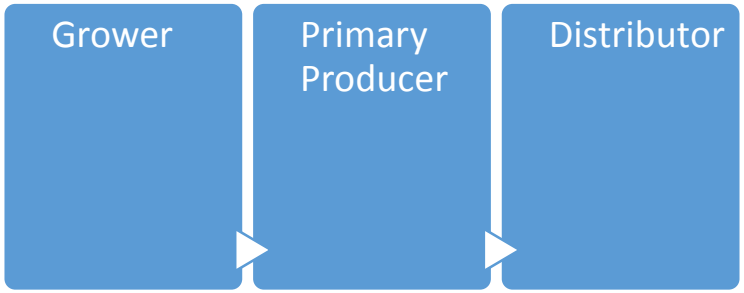
Ensuring Your Food Safety Platform is Constantly Compliant

- Food Safety legislation is not going to get any simpler
- The burden of compliance with the latest legislation will be shifted to the vendor with automatic updating of plans where possible and highlighting of areas that need revising / attention where not
- Regulators will require evidence of rapid uptake of new legislation which can only be achieved through this automated platform management environment
- This will lead to a further relegation of non automated sytems

Integration of various food safety systems

Integrating Food Safety into the Enterprise's IT Platform

- Over the next few years the supply chain for FBOs is going to become completely integrated with data flowing automatically between the various elements in the chain



Integrating Food Safety into the Enterprise's IT Platform

- This is already happening in the ERP context where commercial integration of product movement (and values) through the supply chain is already in place
- We anticipate the requirement for non financial data (e.g. confirmation of Food Safety compliance) to be provided alongside product information which will require a completely new approach by FBOs in this area
- We already have the necessary APIs to allow this to happen – what is required now is a close monitoring of evolving legislation and consultation with our customers to determine what and how we need to integrate with your ERP platforms

Driving productivity and improvement

Using Big Data to Maximise Knowledge and Efficiency

- Benchmarking – how do other FBOs set up their programs and Food Safety environments in situations similar to yours?
- Crisis Response – how have other FBOs responded to compliance failures in various areas?
- Both of these scenarios are being built into SF360 based on real data and this will significantly enhance user value and experience

Productivity Enhancements

- IT is constantly evolving – Cloud was an inmprovement on client server
- Now in the Cloud environment there are continuing developments
  - Offline – a potential limitation of all Cloud solutions
  - App – increase accessibility of the platform both for user input but also reporting

Where Are We Going?!

- IT is going to continue to revolutionise Food Safety Management
- Phase 1 has basically been automating existing processes and has delivered massive productivity gains
- Phase 2 promises to be equally exciting and transformational
  - Intelligent, legislatively aware software will reduce compliance time and cost and drive food safety in evolving markets
  - Integration with FBOs ERP platform and the overall supply chain will transform logistics
  - Big Data will create an intelligent and connected platfom which reflects real world experience.

Q&A

Thank you for listening!