

Victor Ceserani Lecture Series

Fraud in food supply systems: A complex problem with simple solutions(?)

Professor Chris Elliott Institute for Global Food Security

Tuesday 9 February 2016



Queen's University Belfast

Institute for Global Food Security

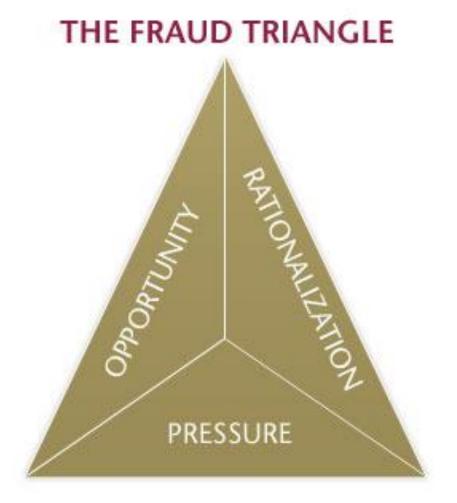
A definition

What is food fraud?

Food fraud is the deliberate substitution, addition, tampering, or misrepresentation of food, food ingredients, or packaging; or false or misleading statements made about a product for economic gain.



Drivers of Food Fraud



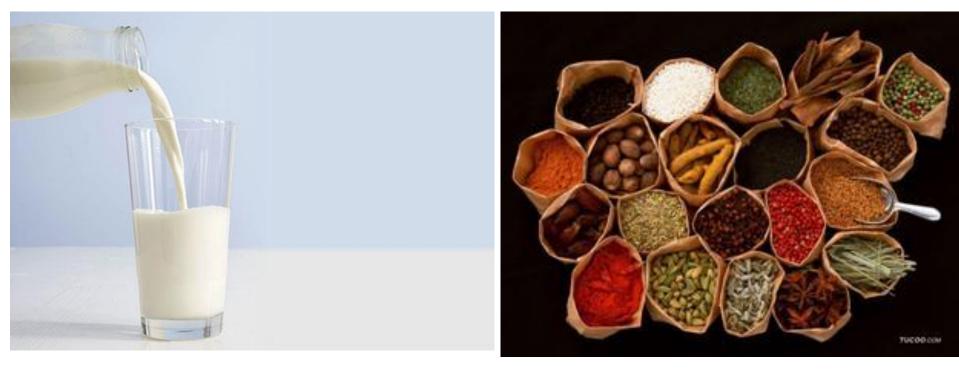
Substitution Fraud

Replacing higher value food with lower value



Addition Fraud

Adding a component to a food to bring about an increase in value



False Claims

- Country of origin
- Welfare friendly
- Organic
- Fair Trade



Vulnerabilities





The Main Issues

Consumers

- Potential health risks
- Nutritional deficiencies
- Economic loss
- The feeling of being cheated

Businesses

- Letting customers down
- Reputational damage
- Financial losses





Health Risks from Food Fraud

Two types of food fraud that puts at risk consumers' health.

Direct Risk occurs when the consumer is put at immediate or imminent risk, i.e. the inclusion of an acutely toxic or lethal contaminant.

Indirect Risk occurs when the consumer is put at risk through long-term exposure, i.e. the build up of a chronically toxic contaminant in the body





News report 4th February 2016

Olive Oil World

Health

Business -

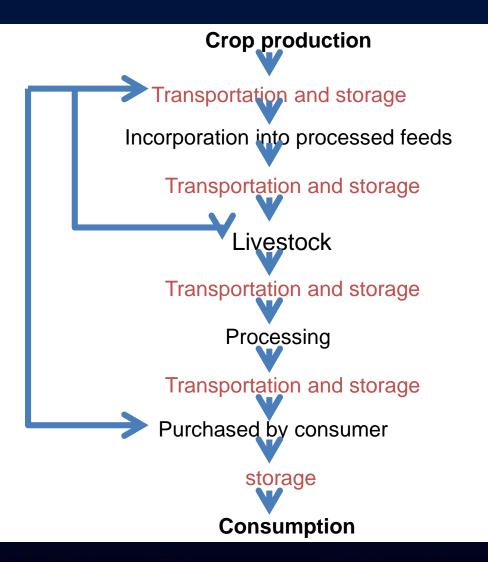
Community

Olive Oil Times

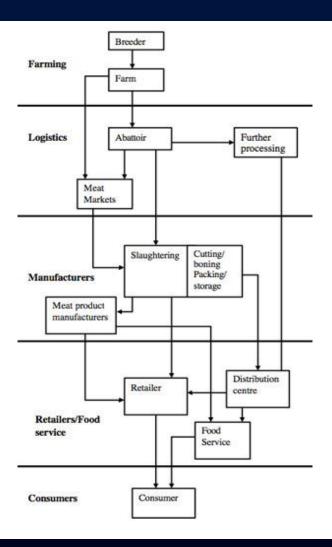
More Mislabeled Oil and Dangerous Colored Olives Seized in Italian Raids

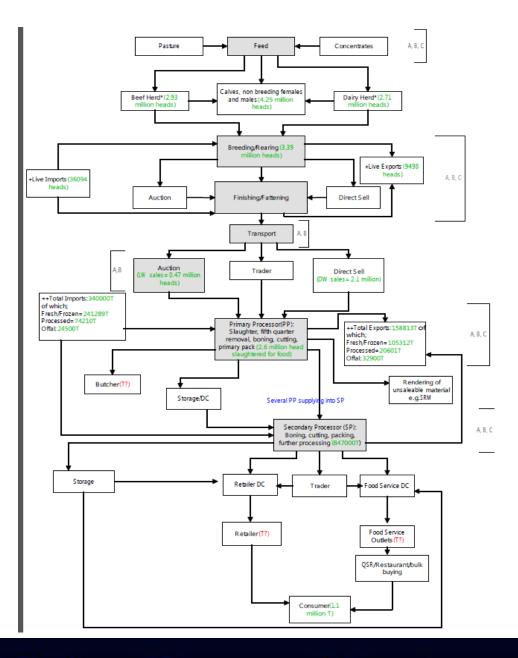
Another major seizure of mislabeled olive oil was announced hours before another raid found table olives colored with a

The Food Supply Chain

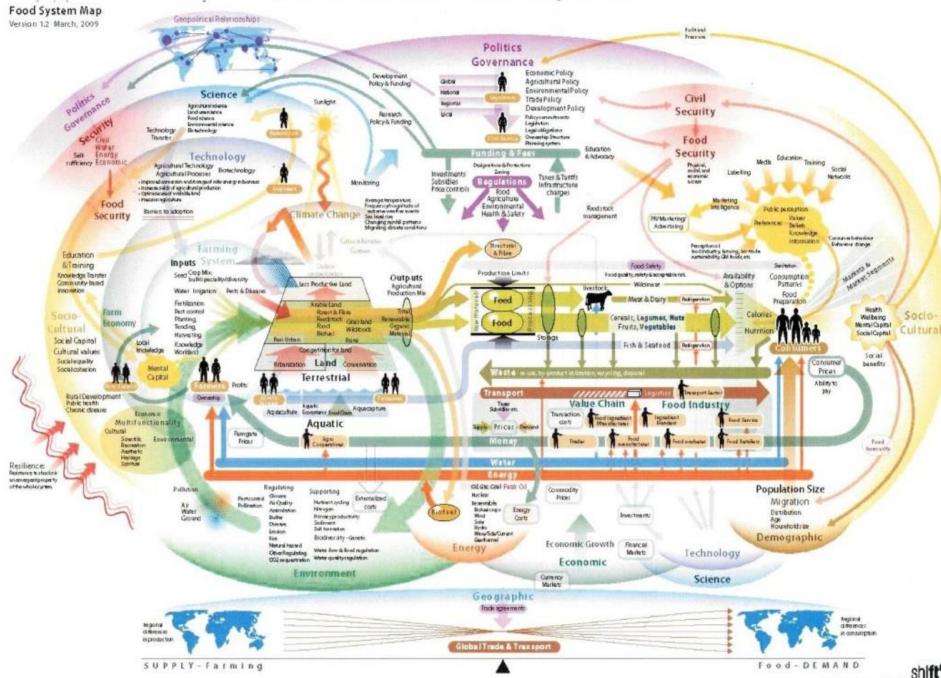


UK Meat Supply Network





The Global Food System



Horsemeat scandal: timeline

Ten key moments of revelation in the investigation

Felicity Lawrence The Guardian, Friday 10 May 2013 21.30 BST



Link to video: Inside an abattoir: from carcass to burger

It is four months since the scandal of beef products being adulterated with horsemeat broke in Ireland. The Irish department of agriculture and the UK authorities have identified key players, yet, weeks later, precisely where the fraud took place remains unclear. **NEWS** UK

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10 April 2013 Last updated at 09:31

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Q&A: Horsemeat scandal

The discovery of horsemeat in processed beef products sold by a number of UK supermarket chains last month has resulted in a series of product recalls and thrown the spotlight on the food industry's supply chain. It has also inspired a stricter food testing regime across Europe. So how did the scandal unfold and what is being done?



How did the scandal emerge?

Irish food inspectors announced in mid-January that they had found horsemeat in frozen beefburgers made by firms in the Irish Republic and the UK, and sold by a number of UK supermarket chains, including Tesco, Iceland, Aldi and Lidl.

Since then, a growing number of stores and companies across Europe, including Findus and Nestle, have recalled beef ready meals, after tests found they contained horse DNA.

Catering giant Compass Group, which provides schools and hospitals, and Whitbread, one of Britain's largest hotel chains, have also found horse DNA in products supplied to them as beef.

Health experts have said the issue is one of food fraud rather than food safety.

How widespread is the problem?

Mislabelled processed meat products have so far been discovered in the UK, the Republic of Ireland, France, Norway, Austria, Switzerland, Sweden and Germany. Suspicious products have also been withdrawn in the Netherlands as tests are carried out.

The European Union has told member states to conduct random tests for horsemeat.

In the LIK food retailers were told by the Food

Horsemeat scandal

What is the FSA?

Horsemeat - food fraud, not food safety

Why horsemeat revolts Britons

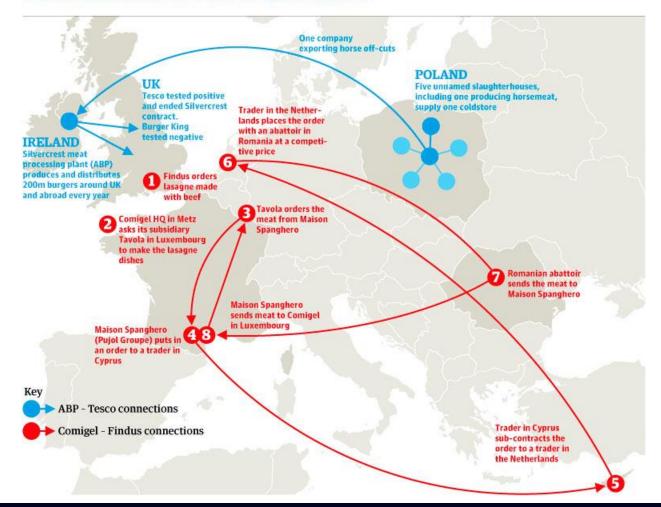
How damaging to meat industry?

Anter Anter

Full list of products withdrawn in the UK

The Supply chain for 'Irish/UK' Beef

Britain's horsemeat The ABP and Comigel connections





Elliott Review into the Integrity and Assurance of Food Supply Networks – Final Report

A National Food Crime Prevention Framework







Eight pillars of food integrity

CONSUMER FIRST

Food safety and food crime to be given absolute priority over everything else



128210H [RF] © www.visualphotos.com

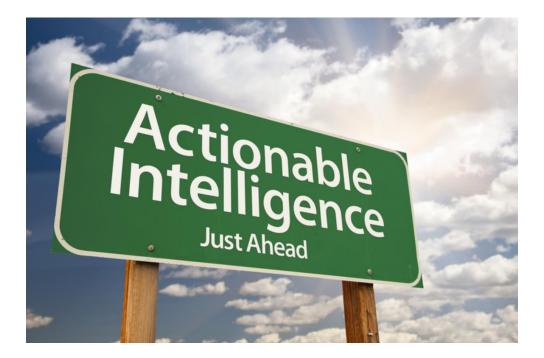
ZERO TOLERANCE

No turning a blind eye to minor dishonesties – a change of business practise and culture



INTELLIGENCE GATHERING

A key role for government and industry to collect and share information with each other



LABORATORY TESTS

Sampling and testing must be conducted to the highest standards to ensure appropriate and speedy action



AUDIT

Auditing with emphasis to detect fraud to be introduced by industry & regulators but not to overburden industry



GOVERNMENT SUPPORT

Better working between government departments and a more robust Food Standards Agency



LEADERSHIP

Development of a dedicated Food Crime Unit



CRISIS MANAGEMENT

Clear roles and responsibilities if/when further evidence of food crime comes to light.



Post Review Activity





- Reinvented audits
- Supply chain mapping
- Intelligence sharing
- Delisting
- More testing

- Network of excellence in testing
- Cross governmental committee
- National Food Crime Unit

Post Elliott Review

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About Which? PRODUCT REVIEWS		Regulatory
ne	Output Daby & Clific Energy News Videos 015 > July > Does your spice rack contain fake oregano? Does your spice rack contain fake oregano? 25% of oregano tested contained other ingredients	
 > December > November > October > September > August > July > June > May > April 	23 July 2015 A cutting-edge food fraud study – revealed exclusively to Which? – found that 25% of 78 samples of dried oregano bought from a range of retailers contained ingredients other than oregano. These ingredients, most commonly olive and myrtle leaves, were found to make up between 30% and 70% of the product. So in some cases, less than a third was actually oregano. The snapshot investigation used oregano samples bought from	ETTER SIGN-UP Sign i FOR MEMBERS to receive the following etters: ily News Veekly Update ocerJobs People Weekly
April March February	a range of shops in the UK and Ireland and from online retailers, and was led by food fraud expert Professor Chris Elliott.	rtner Offers email address Submit

Health Inspectors collect samples from ZAMBEEF trucks for testing

Time Posted: June 25, 2013 8:00 am

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McDonald's Faces Declining Sales In Asia After China Food Scandal

Trefis Team , Contributor



By Alanna Petroff and Sophia Yan @CNNMoney July 21, 2014: 11:12 PM ET

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There may be more scandals caused by criminals perpetrating food fraud in the UK. Opportunities always being sought:

Investigation of the Drivers for Food Crime

- Crop failures
- Price wars
- Currency fluctuations
- Political instability
- Ethical trading issues

John Spink, Criminologist and leads the food fraud initiative in the US

'It's all about keeping the bad guys out of your business'