

Risk assessment implications and preparation for response to food fraud

Overview



- EFSA's role in food safety
- Food fraud definitions and examples
- Food fraud implications for EU risk assessment

What is EFSA's role?



To provide risk assessment advice on:

- food and feed safety,
- animal and plant health issues,
- animal welfare,
- nutrition, allergies

.....to Member States and the European Commission.

What EFSA does



EFSA's tasks

- 1. Provide scientific advice, opinions, information, and technical support for Community legislation and policies
- 2. Collect and analyse data to allow characterisation and monitoring of risks
- 3. Promote and coordinate development of uniform risk assessment methodologies
- 4. Communicate risks related to all aspects of EFSA's mandate

What EFSA does



What EFSA cannot do

- Be responsible for food safety legislation
- Take charge of food safety/quality controls, labelling or other such issues
- Act as a substitute for national authorities

Types of food fraud (Spink 2007, 2009)



An intentional act for economic gain:

- Adulteration e.g. melamine in milk
- Tampering e.g. changed expiry date
- Over-run e.g. under-reporting of production
- Theft e.g. product distributed outside of regulated supply chain
- Diversion e.g. relief food redirected
- Simulation e.g. inexact copies of foods produced without the same food safety assurance
- Counterfeit e.g. product fully replicated but without the same food safey assurance

Food fraud and EFSA (risk assessment)?

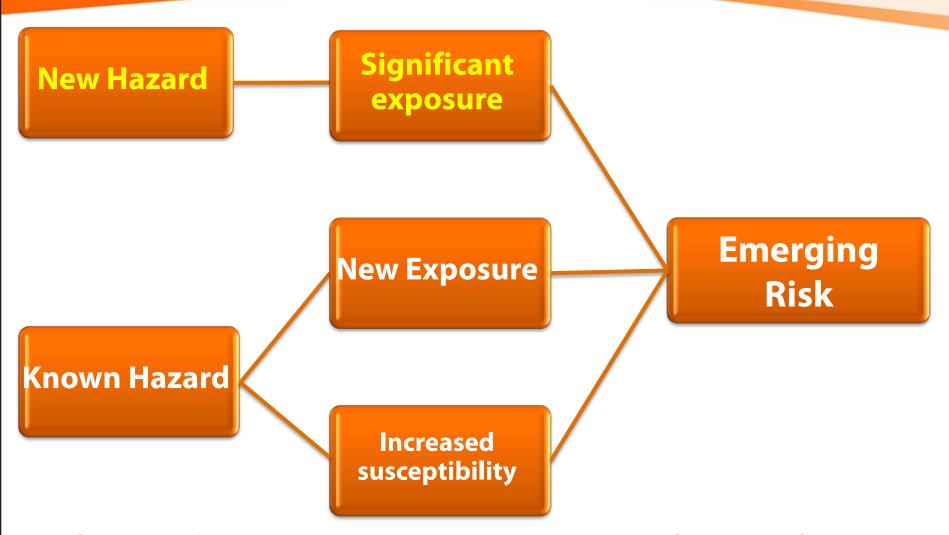


- Urgent risk assessments to support crisis/incident management.
- Anticipation of future risk assessment needs (emerging risks)

Substitution, adulteration, simulation

Definition of Emerging Risk





ESFA, 2007. Definition and description of « emerging risks » within the EFSA's mandate. Statement of the Scientific Committee, 10 July 2007.

Examples – substitution (simulation)



- Beef by horse meat
- Fish by less expensive species
- Lamb by other meats (chicken and pork)
- Donkey by horse meat

Examples – Horse meat



- Meat products with gross contamination (as well as with trace contamination) found in the food chain.
- Mis-labelling at a point in the food chain occured.
- Risks?
 - Lost traceability, lower safety assurance
 - Presence of a veterinary drug (phenylbutazone) not authorised for animals entering the foodchain required an urgent joint risk assessment by EFSA and EMA.

Examples – fish substitution



- Global consumption of fish is rising
- Testing has revealed significant mislabelling:
 - UK: 7% of cod and haddock sold in 'fish and chip' shops were substitued by cheaper types of fish.
 - Ireland: 19% of fish products were mislabelled.
 - USA: 25% of fish sold in restaurants in new York were 'mis-labelled'
- Risks?
 - Lost traceability, lower safety assurance

Examples -adulteration



- Milk with melamine (falsifying protein content)
- Milk with leather proteins (falsifying protein content following dilution)
- Milk with clouding agents (correcting the visual appearance following dilution)



The case of Melamine



 approved as food contact material
 (Directive 2002/72/EC)



• legally used in plastics, fabrics, glues, colorant for inks etc

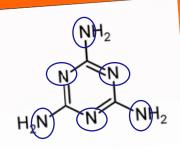


• illegally used in feed & food

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analytical tests measure higher protein content

£ €\$



The case of Melamine



- 2007: pet feed contaminated with melamine imported from China
 - kidney failure, deaths in **dogs**, **cats**
- 2008: contaminated infant milk, milk products produced and consumed in China
 - kidney failure, deaths in children
- EU: no imports of milk & milk products from China, but products containing milk (biscuits, chocolate) imported





Examples – counterfeiting/simulation



- Use of banned, unauthorised and counterfeit pesticides.
 - A trend identified by Europol in 2012.
 - According to European Crop Protection Association (ECPA) 7-10% of pesticides are thought to be illegal.
 - Sophisticated counterfeits (same packaging and labelling)
 - Low quality copies (different formulation, different labelling)
 - Illegal or unregistered products masquerading as legitimate
 - Illegal activity, including organised crime
 - Risk? Banned pesticides often already assessed, new forumations, new ingredients however maybe unknown.
 - Poses a risk to consumers, crops and the environment

Food fraud and EFSA



- Largely a risk management issue, however;
- Urgent risk assessments to support crisis/incident management.
- Anticipation of future risk assessment needs (emerging risks)





Thank you for your attention!

and







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