

Tools to reduce the risk of falling victim to food fraud

John Points

RISK

"The effect of uncertainty on objectives" (ISO 31000)

Need to consider

- The <u>Risk Source</u> ("hazard", in old money)
- The <u>Potential Event</u> (*i.e.* a fraud)
- The <u>Likelihood</u> (which can be controlled)
- The <u>Consequences</u> (also which can be controlled)



FRAUD RISK – WHAT DRIVES THE LIKELIHOOD?

- The "Risk Source" is a PERSON
 - Culture normalization of minor transgressions?
 - Motive economic or supply pressures?
 - Opportunity?
 - Chances and consequences of getting caught?
- Bad Apple vs Bad Barrel vs Bad Orchard? Need to consider all three scenarios.

Does any of this have anything to do with GFSI certification?

"50% of frauds are committed by an employee"

Wim Huisman, Professor of Criminology, VU University of Amsterdam cited in the SSAFE food fraud vulnerability assessment tool



FOOD FRAUD VULNERABILITY ASSESSMENT TOOL

Food fraud is a growing issue facing the food industry today, especially in the current challenging economic times and with food supply becoming ever more global. Whereas the driver might be economic gain, food fraud incidents can lead to a serious public health threat. Therefore the Global Food Safety Initiative (GFSI), a key partner of SSAFE, has recently included new requirements in its Guidance Document that require organizations to have a documented food fraud vulnerability assessment procedure in place and implement measures to mitigate against the identified vulnerabilities.

In response, and in order to support the entire food industry, SSAFE has developed a FREE TOOL to help any food business, irrespective of size or geographic location, identify how they may be vulnerable to fraudulent activity and prepare mitigation plans, and can be used to determine the vulnerability of an ingredient, product, or your entire company.

Although the tool is made available for free to the user, SSAFE's members and it's partners dedicated more than 18 months and significant financial resources to develop this science-based tool. Working in partnership with the University of Wageningen RIKILT and the Vrije Universiteit Amsterdam we have prepared a robust, flexible, easy to use tool that has already been downloaded by 50.0004 users in a variety of languages.



WHERE DO FRAUDSTERS COME FROM?

ORGANISED CRIME



GOOD APPLE/BARREL GONE BAD



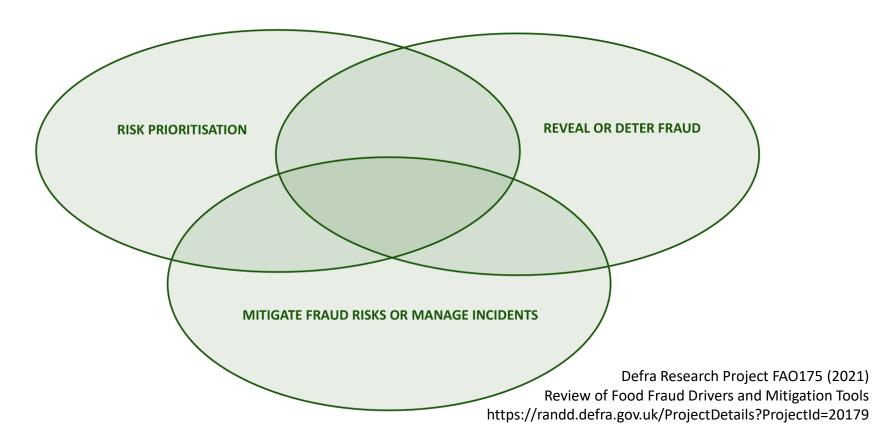
Macro-economic opportunities?

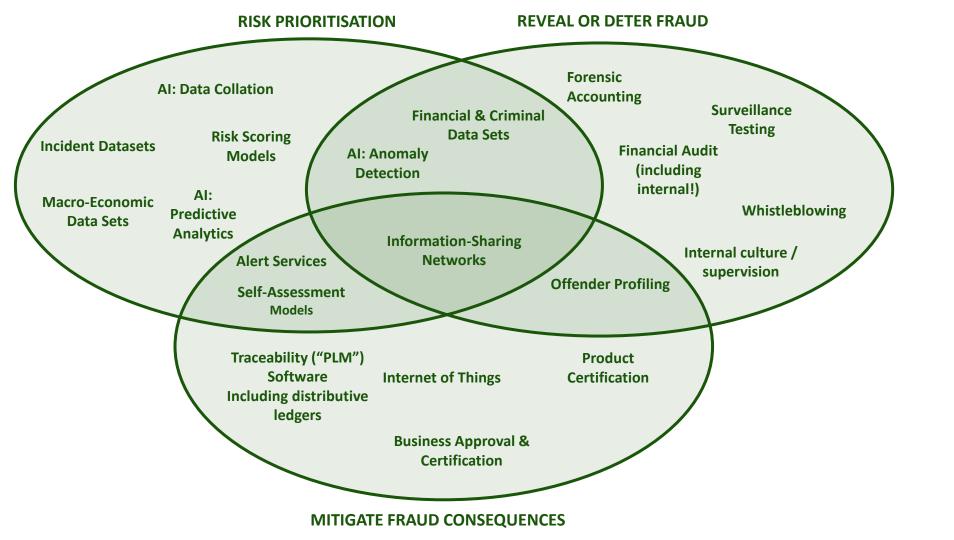
- Price volatility/differentials
- Supply shortages
- Low chance of detection
- Low penalties

Financial or timeliness stress?

- Gradual normalization of low-level wrongdoing
- Tend to stay within their business comfort zone – same customers and suppliers, "stay local"

FRAUD RISK ASSESSMENT/MITIGATION NEEDS A BIGGER TOOLKIT THAN FOOD SAFETY





FOOD INDUSTRY: CURRENT BALANCE OF EFFORT

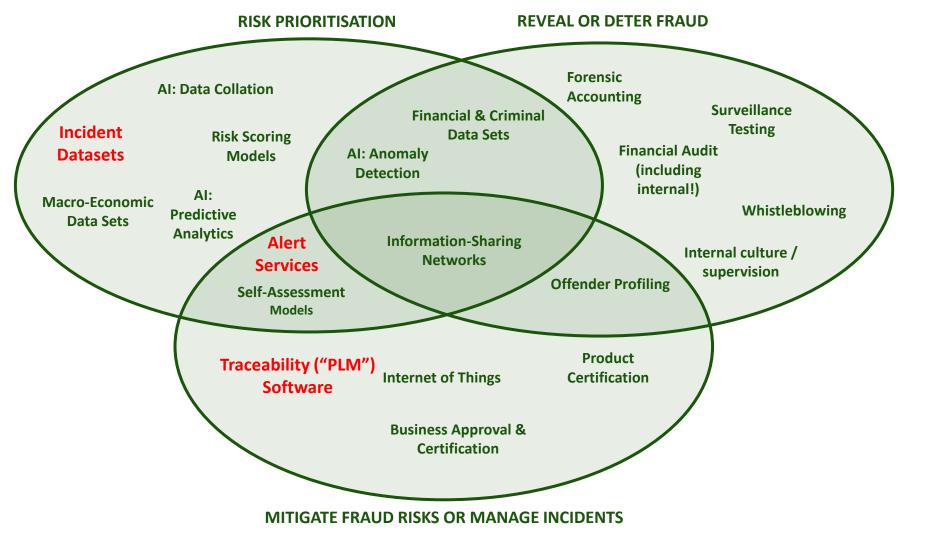


External factors:

- Previous incident collation
- Price differentials
- Supply shortages

Internal vulnerabilities:

- Culture / lack of supervision
- "Just get it out of the door"
- Race to the bottom on price



HORIZON SCANNING

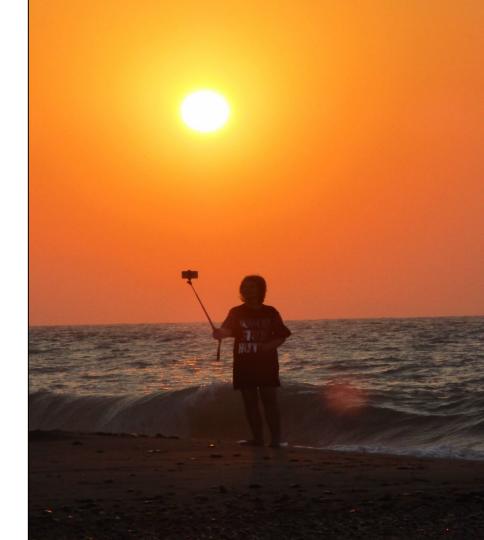
What have others reported?

What drives temptation?

- Price volatility/differentials
- Supply shortages

This is the easiest bit

(although you are looking at the wrong horizon!)



INFORMATION SOURCES

Free Cheap Less Cheap













Your own lab's news highlights service



Add-in modules for your HACCP/ERP IT system







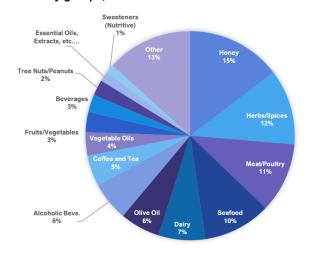
Analytical surveillance testing



CURRENT WATCH-OUTS The usual suspects



Commodity groups, Global data 2023

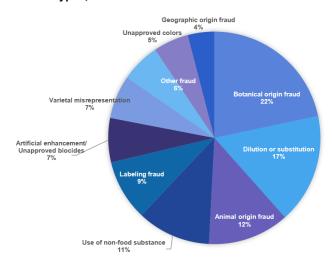


Commodity groups (percent of total records)
Global data 2023
Source: FoodChain ID Food Fraud Database

Herbs & spices
Dairy
Alcohol

Vegetable Oils Seafood Honey

Fraud types, Global data 2023



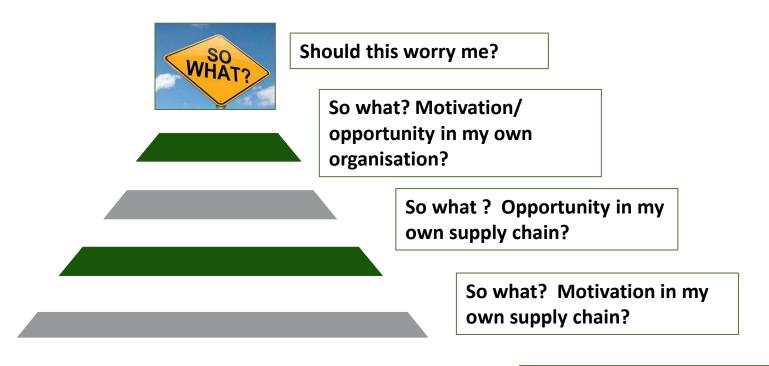
Fraud types (percent of total records)

Global data 2023

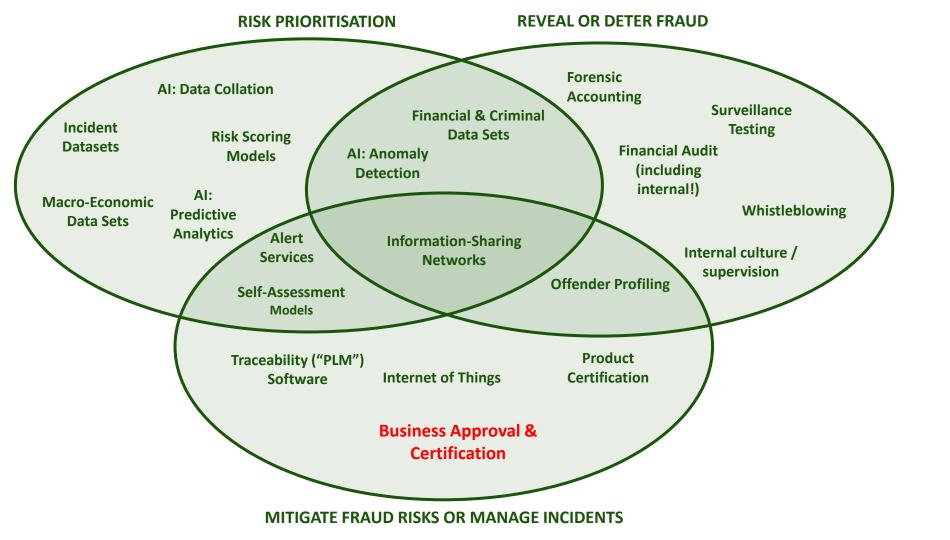
Source: FoodChain ID Food Fraud Database

Dilution / substitution
Animal species
Adulteration (non-food substances)

YOUR HORIZON SCANNING FLAGS A RISK: THE 5 SO-WHATS

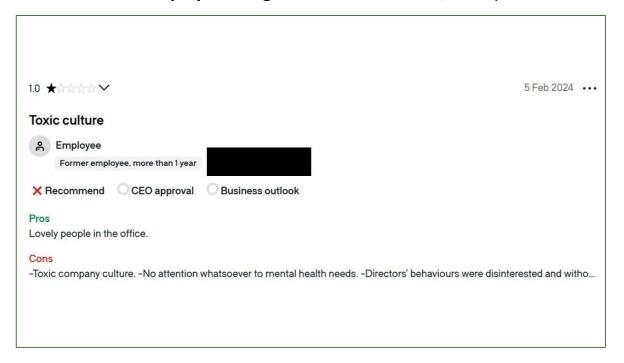


"Horizon Scanning"

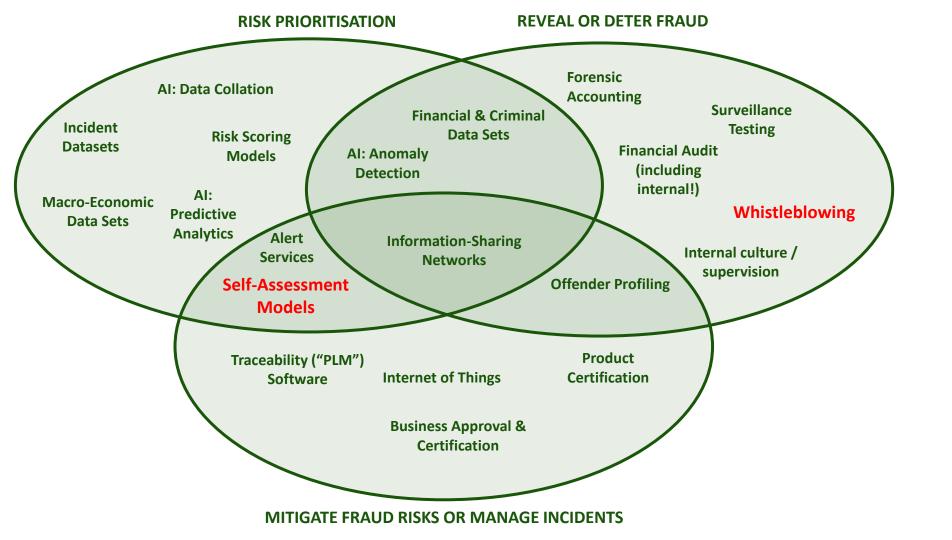


TRY AND THINK BEYOND THE "GFSI-STYLE" SCORECARD

e.g. look at Glassdoor – ex-employee rating of a BRC A* rated site, 2024 (this verdict was not untypical!)



e.g. look at Companies House red flags – Directors with history of closing/opening companies



TEND TO BE UNDERUSED – PARTICULARLY FOR SME's

Self assessment tools



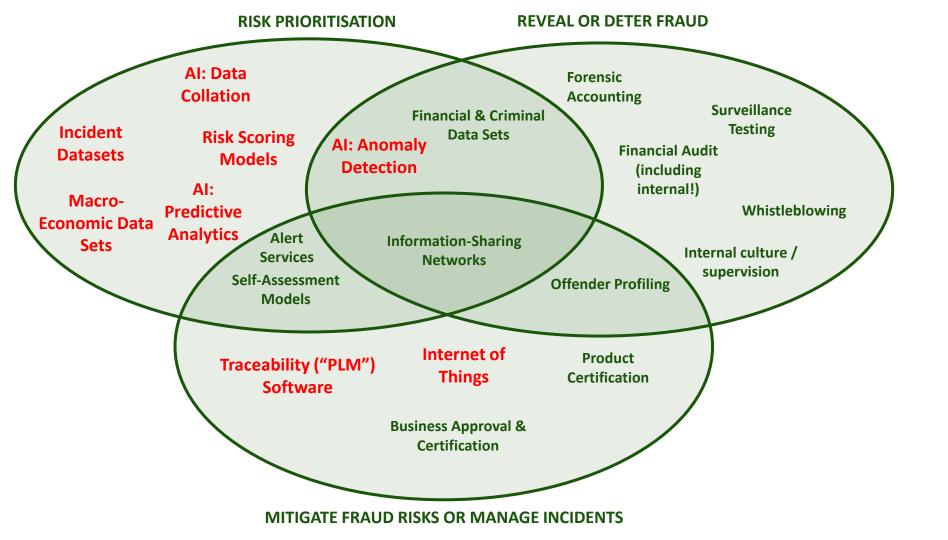


Whistleblowing lines / systems







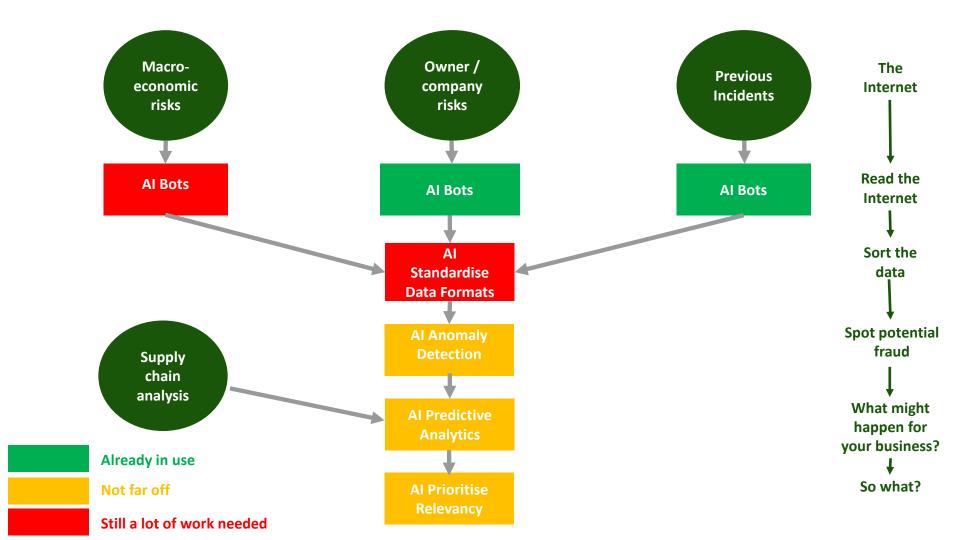


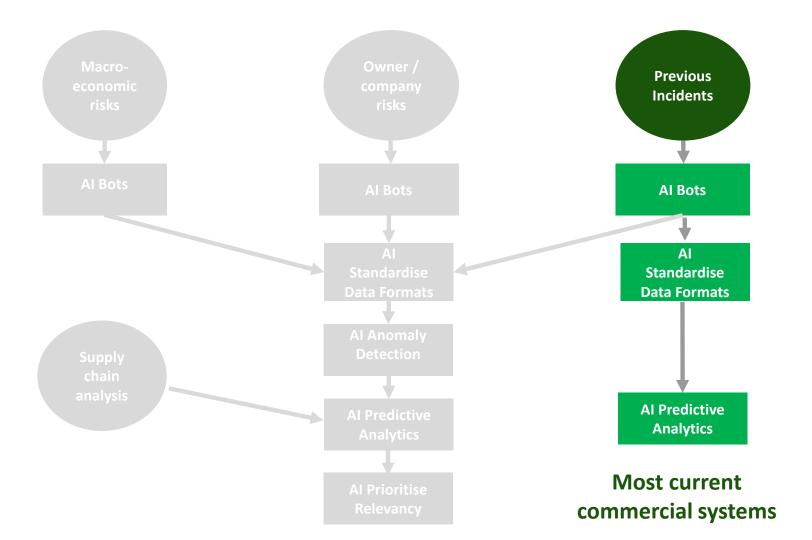
CAN WE
OUTSOURCE
FOOD FRAUD
DEFENCE TO
AI?



BASICALLY READ & DIGEST THE INTERNET







IT WILL STILL NEED THE HUMAN "SO WHAT?"

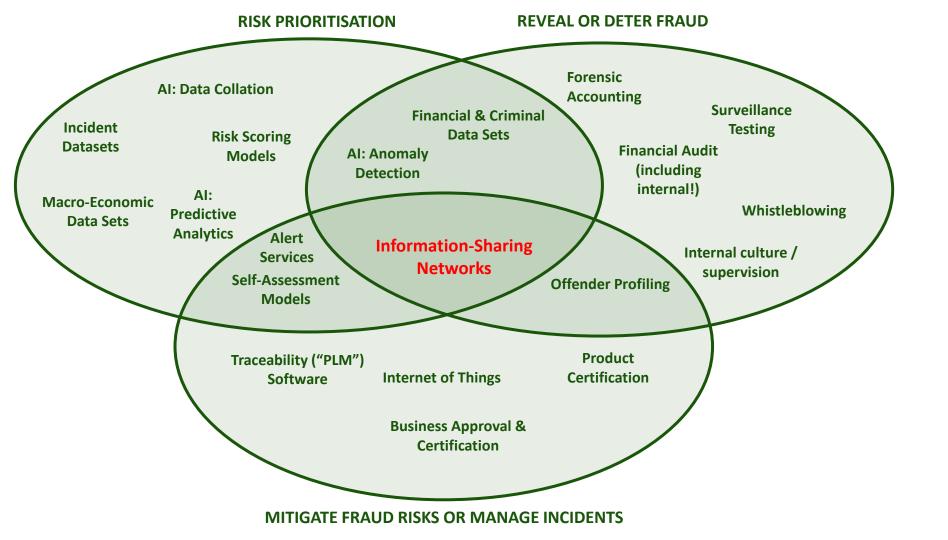














Food Authenticity Network www.foodauthenticity.global



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Regulators

ONE-STOP





Monthly bulletin



Mitigation tools



Index of authenticity databases



"Centre of Expertise" laboratories list





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