A holistic frameWork with Anticounterfeit and inTelligence-based technologieS that will assist food chain stakehOlders in rapidly identifying and preveNting the spread of fraudulent practices



Practice Abstract

Food fraud vulnerability assessment in EU agri-food supply chains

Description

Food fraud is becoming a big challenge to supply chains due to multiple types of adulteration, mislabelling, counterfeiting, dilution, etc., which can cause both damage to public health and economic loss. The food fraud vulnerability of a product may be understood as a weakness that can be exploited by food fraudsters to gain illegal profits.

The aim the Watson food fraud vulnerability assessment is to investigate and analyse the vulnerabilities and root drivers of integrity issues within the Watson pilot supply chains. In total, 131 stakeholders from cereal, dairy, fish, honey, meat, olive oil, and wine value chains were completed the food fraud vulnerability assessment questionnaire. The three critical elements of food fraud as opportunities, motivations, and control measures were evaluated in the assessment.

In general, the opportunities element received higher scores than motivations and control measures. The honey, olive oil, and wine supply chains had the most highly vulnerable markers, such as the complexity of adulteration of raw materials and the availability of technology to adulterate final products. In many cases, a lack of updated testing equipment at processors or farms and fierce market competition, such as price wars, make food fraud more likely to occur.

In conclusion, consumers' health, economic interests, and reasonable profits of stakeholders are all worth protecting. Adequate regulatory guidance and affordable traceability systems are recommended to mitigate food fraud in EU supply chains.

Author(s)

Zhijun Wang Dimitrios Argyropoulos University College Dublin dimitrios.argyropoulos@ucd.ie

Stakeholders

Food Industry
Food Safety Authorities
Policy Makers
Consumers
Academic and Research
Community
Industry Association
Trade Organizations
Technology and Data
Analytics Experts
Supply Chain Partners

Country

Worldwide



A holistic frameWork with Anticounterfeit and inTelligence-based technologieS that will assist food chain stakehOlders in rapidly identifying and preveNting the spread of fraudulent practices



About Watson Visit us

Watson is a 3-year project funded by the Horizon Europe programme, aimed at tackling fraudulent practices in the food supply chain. Our interdisciplinary consortium of 47 partners from 20 EU and non-EU countries is collaborating to develop a holistic traceability framework that integrates data-driven services, intelligence-based toolsets, and risk-estimation approaches, enabling food safety authorities to detect and prevent food fraud more effectively.



Website



Facebook



LinkedIn



<u>Instagram</u>



X (Twitter)

Watson Partners



Disclaimer

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them.

