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LET'S CONNECT!

IDEA

The 4th industrial revolution has reshaped the techno-managerial approach for Food Business Operators (FBOs), prompting a re-evaluation of Food safety management system (FSMS) design and implementation. Embracing digitalization, e.g., including features like real time/remote access, smart data analysis, AI, IoT, offer substantial potential benefits for tailoring food safety management within food companies.

HOW

Given the limited existing literature on this topic, we designed a Delphi study to explore the opportunities and constraints of introducing digitalization for managing Prerequisite programs (PRPs) and HACCP-related activities.

RESULTS

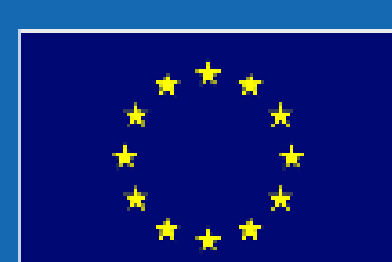
The preliminary results, through detailed overviews and examples, reveal how digitalization can enhance these processes but also underscore the potential challenges associated with its integration into the FSMS.

IMPACT

As research into FSMS digitalisation is still in its early stages, there is much to explore, from regulation and dematerialisation of controls to practical implementation and case study observation. Therefore, new insights into the potential opportunities and challenges of implementing digitisation in the FSMS will be provided. Combining human experience with technological progress will help to strengthen food safety measures and address the evolving challenges of our world.

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