



4th Newsletter

June 2021

Welcome to the 4th Newsletter of DiTECT!

About us,

DiTECT aims to develop an integrated framework for real-time detection, assessment, and mitigation of biological, chemical and environmental contaminants throughout the food supply chain.

Bringing together research, industrial and food authority partners representing the agro-food industry in the EU and China, DiTECT aspires to establish the foundation for future food safety monitoring platforms. By developing a standards-based, modular, Big Data enabled platform DiTECT will be capable of accurately predicting food safety parameters of a given food product based on data collected in real-time via cost-efficient sensors, at crop, grain storage, livestock and finally in the food supply, incorporating blockchain processes.

DiTECT integrates multidisciplinary research teams from fields such as microbial and spectroscopic fingerprinting technologies; emerging ICT-based food tracing systems; signal analysis and data mining. Microbial profiling will be attained via conventional microbiological analyses in tandem with advanced molecular methods (e.g., NGS-based metagenomics), while spectroscopic profiling will be based on spectral data generated using appropriate rapid, non-invasive methods and sensor devices.



Public Reports and Deliverables

DiTECT recognizes that current food chains are lacking a complete snapshot view of food safety at the crop/livestock and finished product levels, and so foresees the development of a cloud-enabled storage system for all data corresponding to different insights of product-specific safety aspects, to be integrated into. The novel food safety services will be demonstrated in four (4) real-world pilots with the active engagement of 21 EU and 13 CN partners, using real datasets to validate efficiency improvements. The carefully structured work plan embodies a “multi-actor” approach to prototyping and validates a ready-for-take-up framework of significant exploitation potential for the agro-food industry.

The over-arching ambition is to drive a paradigm shift in the European and Chinese Industry to deliver a more environmentally friendly and more efficient/higher-yielding food supply chain.

Most of the scientific deliverables related to the progress of the project are made available to public as soon as they are approved by the European Commission. We'll keep you updated on our knowledge center, so stay tuned!

Deliverables with public access:

- 1.3 Management guidelines
- 3.1 DiTECT Data Collection Protocol
- 4.6 Data management plan
- 8.1 Web Site