



Horizon Europe Brokerage Event
Cluster 6 Calls 2025

Warsaw , 27 May 2025

2Dfood –Project Concept

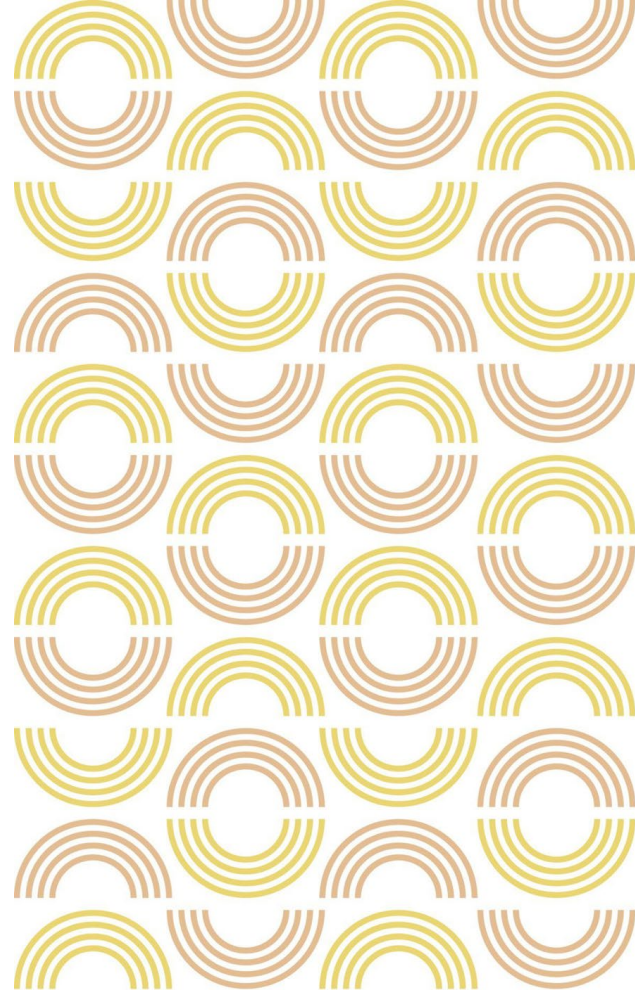
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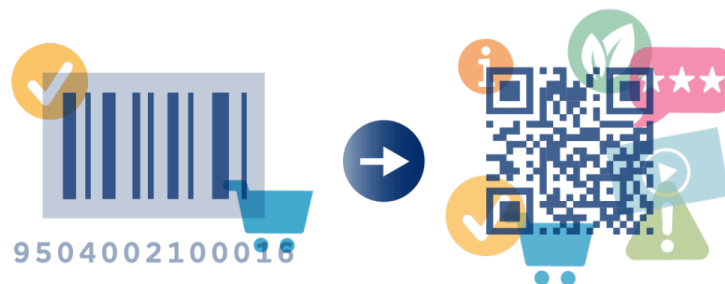
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Topics addressed :

- HORIZON -CL6-2025-02-FARM2FORK-17: Research and innovation for food waste prevention and reduction at household level through measurement, monitoring and new technologies
- HORIZON -CL6-2025-02-FARM2FORK-16: Making food systems more resilient to food safety risks through the deployment of technological solutions
- HORIZON -CL6-2025-01-CIRCBIO -01: Novel circular business models to enable the just transition to a sustainable and circular economy
- HORIZON -CL6-2025-01-CIRCBIO -04: Development and testing of Extended Producer Responsibility schemes (EPR) within the priority Circular Economy Action Plan value chains
- HORIZON -CL6-2025-02-COMMUNITIES -04: Creating urban co-creation spaces for driving sustainable food system transformation
- And other related to Food Cluster and Digital Transformation

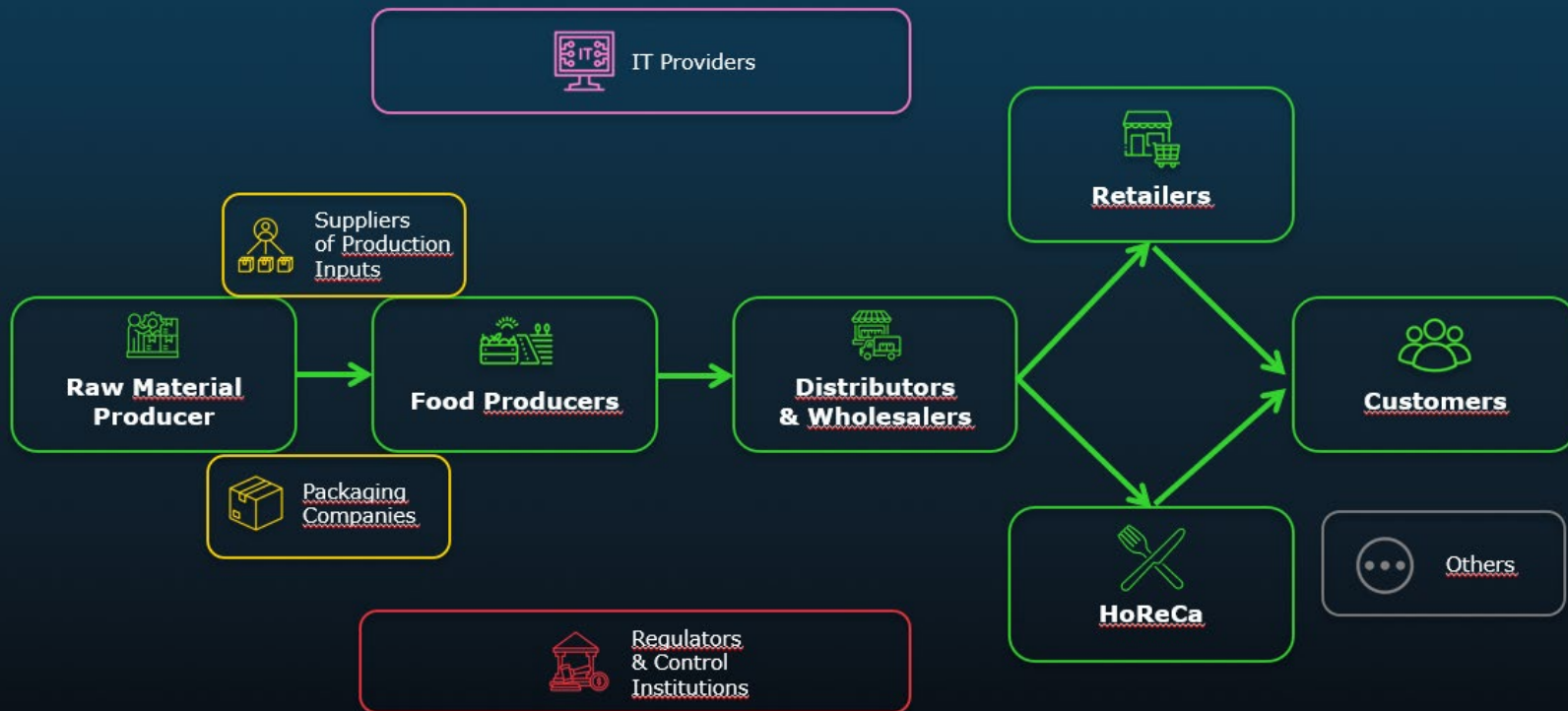
The "2D Food" project aims to develop, implement, and test a global system for food product traceability using 2D codes. These innovative solutions will ensure full transparency and authenticity of products across the entire supply chain, from production to consumption. Additionally, the project will contribute to reducing food waste, CO₂ emission and combating fraud in the food sector.



Scope of the Project:

- Implementation of 2D codes on all unit-level food packaging.
- Digital traceability across the entire food supply chain.
- Integration of ADC/AIDC and IoT technologies for real-time data capture.
- Development of digital twins for process simulation and optimization.
- Use of AI for forecasting, inventory management, and waste reduction.
- Creation of a consumer mobile app for product scanning and fridge tracking.
- Collaboration with charities for better food redistribution.
- Pilot testing in selected food industry enterprises.
- Evaluation of environmental and social impact.
- Promotion of standardization, sustainability, and digital transformation in the food sector.

Food Supply Chain



CONSORTIUM

- **Lukasiewicz Research Network** –Poznan Institute of Technology, Poland (L –PIT)
- University of Malta , Malta
- University of Osijek, Croatia
- GS1
- Food Banks
- A government institution dealing with regulations related to the food industry
- Food Industry Representatives –farmers, manufacturers, processors, distributors of food, grocery stores, supermarkets, HoReCa
- Technology Providers –suppliers of 2D code printing solutions, ADC/AIDC systems, Packaging producer
- IT providers –supplier of cloud database system, application producer
- Business Hubs creators
- AI start-up/ AI researchers
- Autonomous devices researcher

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