

Prototyping of End-to-End Next Generation Food Traceability Using Digital Technologies

Food supply chains involve complex interactions that take place under stringent traceability requirements. In turn, these legal requirements entail, throughout the food industry, expensive and time-consuming paper trails that are especially onerous and difficult to meet for small producers.

The project aims to contribute to a better understanding of digital technology and its implications for supporting the food supply chains ("from farm to fork"). Administrative simplifications will, of course, be a major goal, but food supply optimization can also be considered.

The aim of this project is to design and develop a proof of concept implementation to be used in a pilot project in Wallonia with a set of local producers, logistic carriers and retail stores. LevelIT, a local technological company (<https://www.level-it.be/fr/>), leads and supports the technical aspects of this pilot project, and this project integrates fully into this endeavor.

This project is poised to consider and use existing and emerging digital technologies like IoT, Blockchain, Vision, AI, Big data, mobile technology, etc to support the proposed important shift in food supply chain management. The project will be fully integrated within the strategic plans at LevelIT, and the exact aspects developed by the students will be agreed between the company and the students, depending on expertise and experience of the group.