

WASTELESS

PRACTICE ABSTRACT

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wasteless

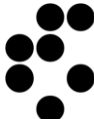
Implementation of the WASTELESS Electronic registry supported by a blockchain system at a fruit processor in Portugal



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Technology providers

IMPLEMENTATION

Portugal

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WASTELESS - Waste Quantification Solutions to Limit Environmental Stress

PRACTICE ABSTRACT

Large amounts of food are wasted every year, and reducing it requires comparable measurement. WASTELESS developed simple tools to record food loss and waste in different supply chains.

In Portugal, fruit juice and jam processing flows were recorded using the WASTELESS Electronic registry supported by a blockchain system based on a standardised survey, stored in a traceable and verifiable way.

The objective was to document mass-balance inputs and outputs and side-stream destinations for fruit-based processing, demonstrating that the approach can represent these value chains even when participation elsewhere is limited. Data were collected and entered for apple juice and fruit jam, showing that the registry can capture key processing flows and by-products in a consistent structure. The practical gap is not feasibility but comparability: fruit processing has recurring side streams (peels, seeds, pomace/bagasse) and multi-ingredient products (especially jams) that can be reported in different ways unless the tool guides users.

For practitioners, ready-to-use templates with fruit-specific side-stream lists and standard destination options (feed, composting, biorefinery, etc.) will reduce interpretation and improve benchmarking. For jams and other recipes, the tool should support multi-ingredient entries and give clear rules for handling added water and solids, so the mass balance remains credible. This makes the data more useful for deciding where losses occur and which recovery route offers the best return.

RESOURCES

Title/Description: WASTELESS Electronic registry supported by a blockchain system

URL:<https://wastelesseu.com/tools/wasteless-open-access-blockchain/>

ADDITIONAL INFORMATION

The WASTELESS Electronic registry supported by a blockchain system was developed by WIISE Srl (Workable Ideas and Initiatives for a Sustainable Economy).

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DISCLAIMER

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LICENCE

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