

MilkyWay

Classification technology for optimized milk use



Milk classification device

Cheese production requires milk with specific curdling properties. However, as milk is generally moved up the supply chain in large quantities from farms, distinguishing between different classifications is hardly plausible. The project's patented solution is able to classify milk into separate tanks during milking, each meeting the requirements of a different dairy product – for example cheese production/consumer milk). Overall, this brings optimization to the supply chain and lessens the environmental impact of the dairy industry.



Dairy industry

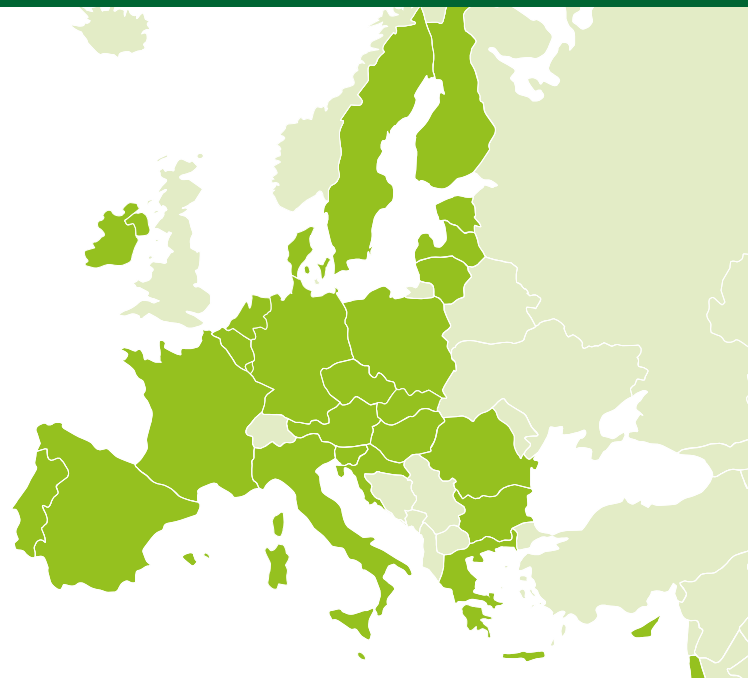


Resource efficiency

The classification device does not manipulate or modify the milk and its operation is fully automatized. Thanks to the classification, dairy production is more efficient and the yields more predictable, requiring up to 15% less milk for the same cheese production output. Farmers are incentivized to adopt the solution by the premium price for separated milk. The optimization also brings associated environmental benefits of up to 11% less water consumption, up to 10% reduced energy for processing and up to 9% lower GHG emissions in the value chain.

The coordinating beneficiary and patent holder Afimilk brought together eight stakeholders including dairies and farmers, to implement the solution and overhaul the supply chain, making it more efficient.

- **Product available across the whole of the EU**
- **Focused on the B2B sector**
- **Contact: info@tdm.it**



eco-innovation
WHEN BUSINESS MEETS THE ENVIRONMENT

Commercialisation results & areas of success



Annual turnover: €<0.5 million



Expected revenues in 5 years:
€2–5 million



Expected market share in 5 years:
26–50% (Home country) 10% (EU)



Expected no. of employees in 5 years:
from 130 to 150



Efficiency of the solution also reduces whey
waste incurred by cheese production



Based on a 240t production of cheese, the solution
avoids approx. 129 600 kgCO₂eq yearly



Does not require new installations, it is possible
to modify and adapt the existing ones to
this new technology



The product is being further improved to allow
separation of milk with specific proteins



The system brings additional benefits for farm
management and improves cow wellbeing



Launched in 2008, the Eco-innovation initiative was part of the EU's Entrepreneurship and Innovation Programme (EIP), set up to support innovation among SMEs and to improve their competitiveness. It was included in the EIP's annual work programmes.

The eco-innovation initiative bridged the gap between research and the market. It helped good ideas for innovative products, services and processes that protect the environment become fully-fledged commercial prospects, ready for use by business and industry. In doing so the initiative not only helped the EU meet its environmental objectives but also boost economic growth.

The LIFE programme has financed green innovation and clean tech solutions since its start in 1992. One of today's key priorities for LIFE is to support close-to-market projects delivering innovative environmental solutions, ensuring that they are sustainable and capable of being widely taken up by society in general, and the economy in particular.

The Close-to-market initiative's aim is to help and assist the LIFE projects with market potential to develop towards successfully maintaining project results via commercialisation and upscaling of the proposed innovative solutions.

LIFE can help you to sustain and thrive even after the end of the LIFE project.

HOW TO APPLY FOR LIFE FUNDING

The European Commission organises annual calls for proposals.
Full details are available at
<https://ec.europa.eu/easme/en/life>
<https://ec.europa.eu/easme/en/section/life/life-close-market-projects>

CONTACT

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