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# More cheese from less milk: eco-innovative real-milk classification technology for optimized milk use

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## MilkyWay

The project aims at promoting a new environmentally friendly breakthrough solution contributing to the reduction of the environmental impact deriving from one of the most polluting industries, dairy production. The new solution is based on real-time classification of milk (without any type of manipulation). Main advantages are:

- reduced amount of milk employed in the dairy production process;
- milk efficiency improvement and high quality cheese with enhanced nutrient properties;
- improvement of dairy production and yields (up to 15%);
- facilitate the milk supply chain, important savings in operational costs for dairy farming, optimization and higher value to milk processors and premium prices to farmers.

This will be possible thanks to the collaboration between AFIMILK (inventor of the innovative system), TDM (responsible for the realization of the necessary instrumentation of the pilot systems) that will be installed in CISSVA and DELLA BONA farms. Representatives of the whole supply chain will be involved: Centro Latte responsible for controlling the pilot systems and animal wellness and for monitoring and optimization of milk and feeds and microbiological analysis; Nutriservice animal feeds producer which will support in feed optimization; MILA a large dairy industry which will execute sector dissemination activities; UNICATT which will be responsible for the realization of the Life Cycle Assessment and involved in the feed nutritional plans coordination.

## Benefits

### Environmental:

- lower GHG (-9,3%) and methane emissions (-11,5%);
- less manure (-10%) to be disposed/recycled;
- reduced energy (-10,5%) and water consumption (-11,2%).

### Economic:

- reduction of milk processed in farms, thus the same production rate with fewer resources employed;
- reduction in the costs of maintenance and cleaning, water and energy consumption, manure disposal/recycling.

The milk supply chain will be optimized, and will provide a higher value to milk processors and premium prices to farmers.

## Partners and coordinator

<a href="#">Total Diary Management s.r.l.</a> [1]	Italy
<a href="#">DELLA BONA FAUSTINO E C. S.S. SOCIETA' SEMPLICE</a> [2]	
<a href="#">CENTRO PER IL MIGLIORAMENTO QUALITATIVO DEL LATTE E DELLA CARNE</a> [3]	Italy
<a href="#">Afimilk Agricultural Cooperative Ltd</a> [4]	Israel
<a href="#">LATTE MONTAGNA ALTO ADIGE SOCIETA' AGRICOLA COOPERATIVA</a> [5]	Italy
<a href="#">CASEIFICIO SOCIALE DI VALLECAMONICA E DEL SEBINO - SOCIETA' COOPERATIVA AGRICOLA</a> [6]	Italy
<a href="#">Nutriservice S.R.L.</a> [7]	Italy
<a href="#">UNIVERSITA' CATTOLICA DEL SACRO CUORE</a> [8]	Italy

## Contact

Total Diary Management s.r.l.

**Website:**

<http://www.tdm.it/en> [9]

VIA DELLO STRONE 8/B

25020 San Paolo


Italy

### Contact point

## Budget

Overall budget: 1.673.905,00 € (EU contribution: 50,00 %)

## Key documents

- [Project Information Sheet](#) [10]  
DOC 880.5 KB 

## In brief

Sector: Food and Drink

Duration: 01/09/2014 to 31/08/2017

Contract number: ECO/13/630450

**Tags:**

dairy

## Related projects

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- [[ENBED](#) <sup>[12]</sup>] ENBED - ENVIRONMENTAL BENEFITS THROUGH THE DECREASE OF FOOD PRODUCTS LOSS...
- [[WASTERED](#) <sup>[13]</sup>] Waste reduction and process optimisation in the European meat and dairy...

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- [3] <http://ec.europa.eu/environment/eco-innovation/projects/en/partners/centro-latte>
- [4] <http://ec.europa.eu/environment/eco-innovation/projects/en/partners/afimilk>
- [5] <http://ec.europa.eu/environment/eco-innovation/projects/en/partners/mila>
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- [9] <http://www.tdm.it/en>
- [10] [http://ec.europa.eu/environment/eco-innovation/projects/sites/eco-innovation-projects/files/projects/documents/eco13630450\\_-\\_milkyway\\_information\\_sheet\\_29sep2014\\_0.doc](http://ec.europa.eu/environment/eco-innovation/projects/sites/eco-innovation-projects/files/projects/documents/eco13630450_-_milkyway_information_sheet_29sep2014_0.doc)
- [11] <http://ec.europa.eu/environment/eco-innovation/projects/en/projects/rephater>
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