



## Implementation of the Final FCHR prototype

WIXTA Industries Srl

***The Consortium is proud of announcing that the final FCHR prototype has been implemented.***

### PROJECT RESULTS

The Consortium is proud of announcing that the final FCHR prototype has been implemented; the system is now located in the dairy processing hall in the School of Food and Nutritional Science at University College of Cork (UCC) in Ireland, where tests on milk and juices are ongoing.

Bacteria inactivation and homogenization effects are object of study and the results of the laboratory tests on the prototype confirm hydrocavitation to be an outstandingly promising and competitive technology for the companies operating in the Food and Beverage sector.

### THE PROJECT

In the FCHR project we propose the implementation of an integrated pasteurizer and homogenizer for fluid foods based on an alternative approach induced only by mechanical means: controlled hydrodynamic cavitation, which consists of the generation of energy in the form of shock waves, due to the turbulence produced in a fluid by pressure fluctuations.

### BENEFITS OF THE FCHR TECHNOLOGY

As a mechanical treatment, the innovative process we plan to introduce with the FCHR will bring the following advantages to the dairy and the general Food & Drink EU companies:

High scalability,  
Energy saving,  
High Energy Efficiency

### APPLICATIONS

The FCHR technology will potentially be applicable to all fluid foods in which pasteurization and/or homogenization is needed:

All products in the dairy industry  
Emulsions of flavorings  
Fruit nectars  
Vegetables puree  
Egg yolks  
Sauces and tomato sauces  
Infant formula, etc.

### CONSORTIUM

WIXTA INDUSTRIES SRL (Coordinator) - ITALY  
FENCO SPA - ITALY  
ELECTRICARS LTD - MALTA  
EPLEBLOMSTENS AS - NORWAY  
GLENILEN FARM LTD - IRELAND  
UNIVERSITA' DI ROMA TOR VERGATA - ITALY  
UNIVERSITY COLLEGE CORK - IRELAND  
LABOR SRL - ITALY

### PROJECT COORDINATOR CONTACTS

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## Related information

### Programmes

- FP7-SME

### Countries

- Italy

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