

# LIFE RENDER - Promoting the implementation of Product Environmental Footprint Methodology in the European Dairy Sector

LIFE16 ENV/ES/000173



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Evento de Encerramento do Projeto de Capacitação Nacional - LIFE14 CAP/PT/000004 –  
LISBON – 06/12/2019



**Deloitte.**



<http://www.life-render.com>



**Objective** - To promote the implementation of the **Product Environmental Footprint Methodology (PEF)** at European level as key tool to assess and to communicate life cycle environmental performance to business consumers and stakeholders.

**Deloitte.**



**BUDGET INFO:**

**Total amount:** € 1.717.552

**% EC Co-funding:** 60%

**DURATION: Start:** 04/09/2017 - **End:** 30/11/2020



## BACKGROUND

### The Single Market for Green Products Initiative

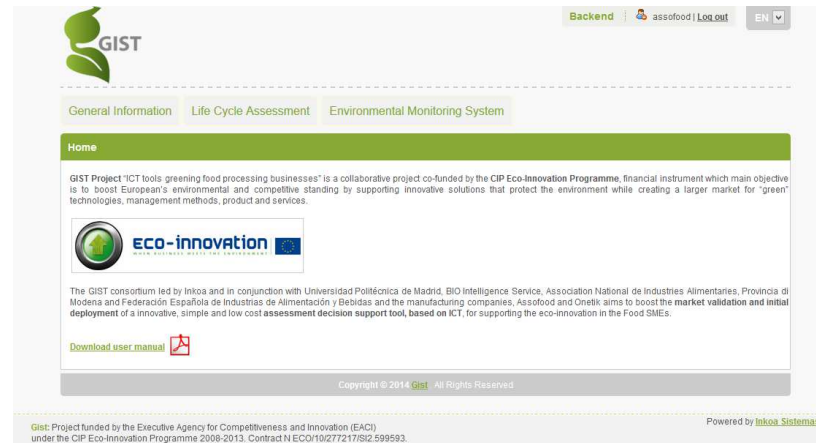
*Communication from the Commission to the European Parliament and the Council COM(2013) 196  
published on 9 April 2013*

- ❑ Aims to overcome the barriers encountered by companies when trying to market their products as “green” on different member state since there is a lack of widely accepted, science-based definition of what a green product/organisation is.
- ❑ Proposes two methods to assess and benchmark the environmental performance of products and organisations throughout the life cycle, the **Product Environmental Footprint** (PEF) and the **Organisation Environmental Footprint** (OEF).
- ❑ Provides principles for communicating environmental performance, such as transparency, reliability, completeness, comparability and clarity.
- ❑ Announces a **three-year testing period** to develop **simplified rules for specific product groups and sectors** (Product Environmental Footprint Category Rules (PEFCR) and Organisation Environmental Footprint Sector Rules (OEFSR)) through a multi-stakeholder process.



## BACKGROUND

**GIST Project** - Improve the environmental performance of European Food SMEs from the Meat and Dairy sectors, realising a simplified LCA tool focused on the management of environmental sustainability at food processing stage.





### Specific objectives:

- Develop an ICT tool supporting the development of PEF and PEFRC compliant studies by Food SMEs and enabling the identification of focused environmental technologies.
- Large-scale demonstration** by assessing the environmental footprint of **dairy products** in France and by implementing **environmental measures** to lower their environmental footprint.
- Demonstrate the **Transferability Potential** of the developed tools to other Member States in Dairy companies of **Spain and Portugal**.

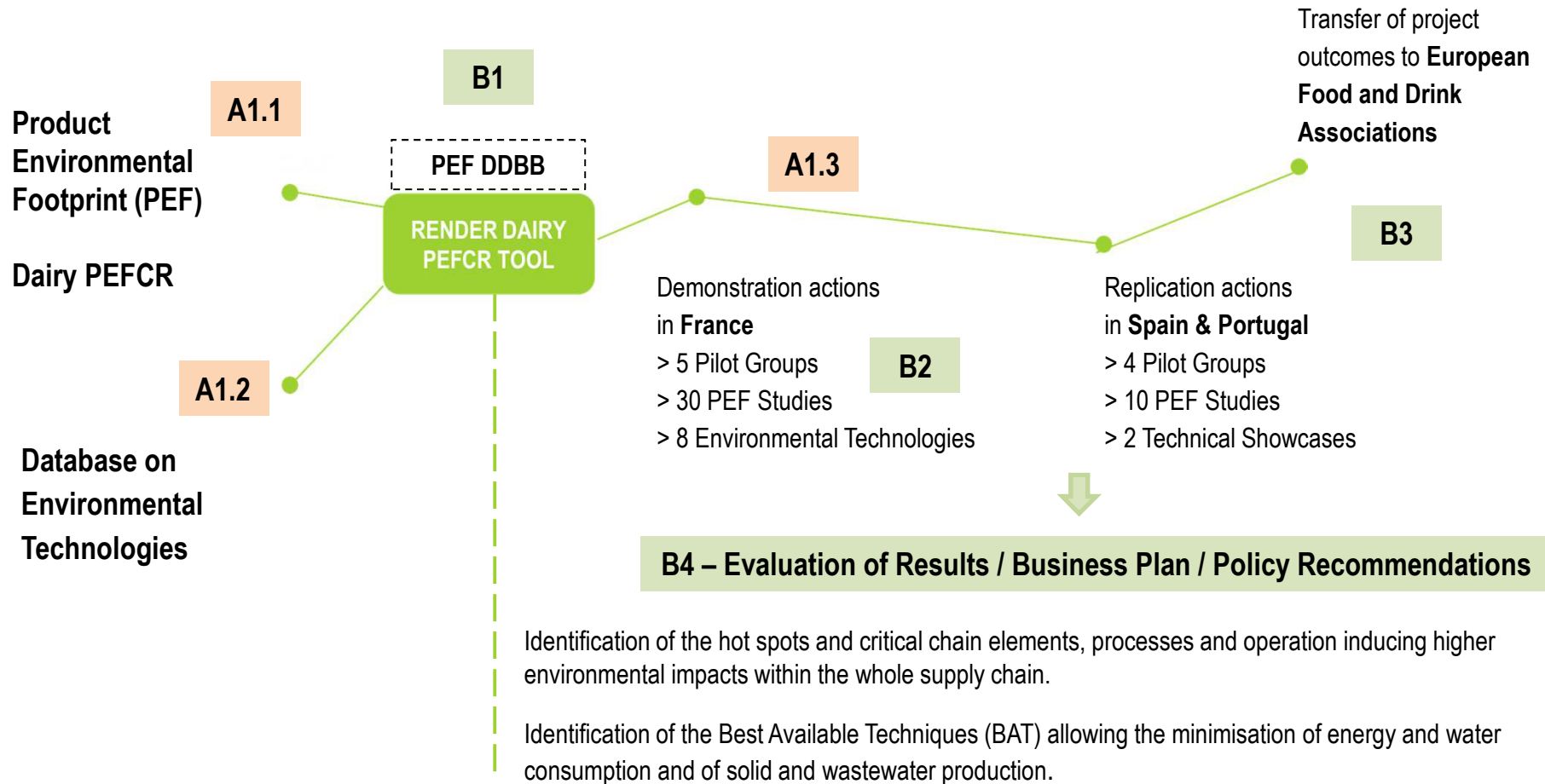
### Expected Impacts:

By identifying **critical chain elements** inducing higher environmental impacts in dairy products and by identifying a **set of measures lowering their impacts**:

- Prevention of 10% of **water consumption** and 10% of **wastewater generation**.
- Prevention of 15% of **energy consumption**.
- Prevention of 5% of **waste generation**.
- Prevention of 84 tonnes/year of **CO<sub>2</sub> emissions** during the project implementation.



C – MONITORING / D – DISSEMINATION / E - MANAGEMENT

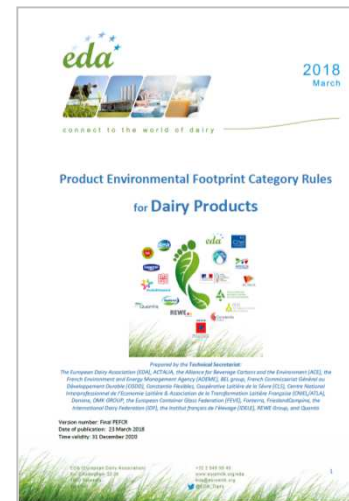






## PRODUCT ENVIRONMENTAL FOOTPRINT AND LIFE RENDER

The Product Environmental Footprint Category Rules for Dairy Products (Dairy PEFCR), coordinated by the **European Dairy Association** (EDA), provides technical guidance on how to conduct a PEF study of Liquid milk, Dried whey products, Cheeses, Fermented milk products and Butterfat products.



**Stakeholders Involved in Dairy PEFCR:** Industry Associations | Dairy Processors | Retailer | Packaging Associations  
LCA Consultant | Public and Research Bodies



## MAIN OUTCOMES OF PREPARATORY ACTIONS

**Report on Adjustments to the software application according to PEF and PEFCR requirements** - key elements to be integrated into the Life Render software tool.

- Dairy products coverage (5 product categories: Liquid milk, Dried whey products, Cheeses, Fermented milk products and Butterfat products) including compliant and specific functional units for each product category.
- Resource Use and Emission Profile following the life cycle steps of the products as defined in the PEFCR for Dairy products.
- Environmental Footprint Impact Assessment— environmental impact categories assessed have to be compliant with the recommendations of the PEF guide and the PEFCR for Dairy products.
- Data Quality Rating (DQR) for the quality assessment of modelled processes, most relevant processes, other processes and of the overall PEF studies must be implemented.

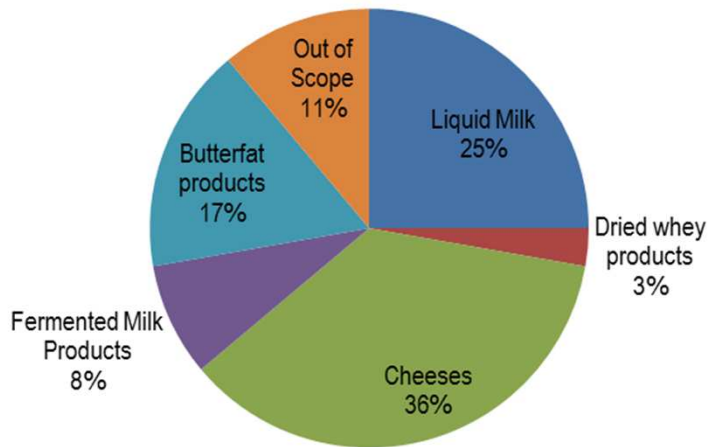
**Database on Best Available Techniques and Management Practices** with 112 BAT Sheets addressing different subjects aiming at optimising environmental performance of dairy businesses: energy efficiency, water consumption, waste generation, wastewater treatment and emissions to water and to air.





## MAIN OUTCOMES OF PREPARATORY ACTIONS

7 French Dairy Companies have been recruited (4 SMEs and 3 large companies), covering 36 Pilot products of the 5 different sub-categories established in the Dairy PEFCR for assessment during the execution of the demonstration phase in France.



Coopérative Laitière de la Sèvre  
[www.echirelebeurredefrance.fr/](http://www.echirelebeurredefrance.fr/)



Laiterie de Saint-Denis de l'Hôtel  
[www.lsdh.fr](http://www.lsdh.fr)



Ferme de Grignon  
[www.fermedegrignon.fr/](http://www.fermedegrignon.fr/)



Fromagerie Dongé



Laiterie Coralis—Agrilait  
[www.agrilait.fr/](http://www.agrilait.fr/)



Isigny Sainte Mère  
[www.isigny-ste-mere.com/](http://www.isigny-ste-mere.com/)



Entremont  
[www.entremont.com/](http://www.entremont.com/)





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## EXPECTED REPLICATION ACTIONS IN PORTUGAL

Demonstration of **Transferability Potential** of the developed tools to other Member States through Replication Tests in dairy companies of Spain and Portugal.

Activities planned, starting in **June 2019**:

- Organisation of a **National Technical Showcase** in each country with representatives of dairy companies to expose the developed tools and gather their feedback of the demo session.
- Development of further **10 PEF and PEF-compliant studies** of dairy products of Spain and Portugal.



## Time to put on the map Life RENDER



**Life RENDER**  
kicked off in Bilbao  
Last 7th November  
2017.

First Life RENDER presentation took place during the meeting of the Research Group of **FoodDrinkEurope** in Brussels (Nov 2017).



January 2018 – Project presented to the working group of the technological platform **Food for Life Spain** from the **Dairy Sector**.



Life RENDER was presented as Strategic Project at **ALIBER2018** in Barcelona, event of reference in innovation in the food sector.

Life RENDER present at **Alibetopías2018** – “New territories in food and beverages”





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www.life-render.com | @life\_render

Life Render website navigation and news sections. The top navigation includes: HOME, PROJECT, ENVIRONMENT, PUBLICATIONS, RESEARCHERS, RELATED PROJECTS. The main content area features a 'LIFE RENDER' section with a sub-header 'ENVIRONMENTAL FOOTPRINT (EPF) IN A NUTSHELL' and a '26/04/2018' news item titled 'The technical phase of Environmental Footprint is now officially opened'.

Twitter social media feed for @life\_render. The profile shows 35 tweets, 46 replies, 52 retweets, 63 likes, and 1 message. A tweet from 'Concha Añón' is highlighted, discussing the 'Product Environmental Footprint Methodology in the European Dairy Sector'.

LA ACTUALIDAD newsletter screenshot. The header includes 'MERCADOS DE MEDIO AMBIENTE' and 'LA ACTUALIDAD'. The main content features a headline: 'LIFE Render: Hacia un marco único para evaluar los efectos de un producto sobre el medioambiente'.

El blog de FIAB screenshot. The main article is titled 'La sostenibilidad en el sector lácteo, objetivo del proyecto RENDER' and is dated '26 de febrero, 2017 por Inés María Fajó'.

## Project Brochures, Newsletter

Project brochure page 1. It features the 'Life Render' logo and the text: 'The Product Environmental Footprint (PEF) is a multi-criteria measure of the environmental performance of goods or services throughout the cycle. PEF allows companies to assess the environmental impact of their products and services, and to identify areas for improvement through production and use in their own management.' It lists five objectives: 01 Demonstration under real conditions, 02 Large-scale demonstration, 03 Demonstration of Transferability, 04 Demonstration of LCC, and 05 Implementation of awareness-raising strategies.

Project brochure page 2. It features the 'Life Render' logo and the title 'Life Render in a Nutshell'. It includes a 'SUMMARY' section and a 'Life Render - Phase' diagram showing the project's structure and timeline.

Newspaper article screenshot. The headline is 'Nuevas herramientas para evaluar el impacto ambiental de la industria alimentaria'. The article discusses the development of new tools for evaluating the environmental impact of the food industry.

EDSOSTAL project website screenshot. The main headline is 'PROYECTO EUROPEO POR EL IMPACTO AMBIENTAL'. It features the 'Life Render' logo and a 'Desarrollo de Sostenibilidad' section.

Agencia vasca de desarrollo empresarial website screenshot. The headline is 'NUEVAS HERRAMIENTAS PARA EVALUAR EL IMPACTO AMBIENTAL DE LA INDUSTRIA ALIMENTARIA'. It features a photo of a group of people holding a 'Life Render' banner.

## Life RENDER in the media

http://www.life-render.com



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**Thank you for your attention!**



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