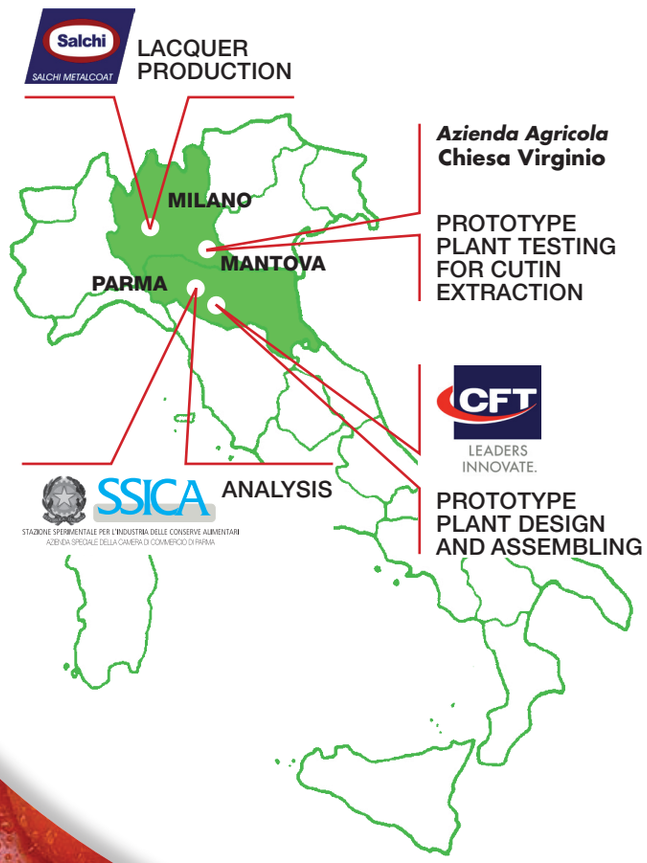
BIOCOPAC Plus

SITES OF INTEREST



PARTNERSHIP CONSORTIUM

SSICA
STAZIONE SPERIMENTALE PER L'INDUSTRIA DELLE CONSERVE ALIMENTARI
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Project cost: **2.056.045,00 Euro**
EU contribution: **1.018.022,00 Euro**
Project duration: **Giugno 2014 - Maggio 2017**

Project realized with the contribution of the financial instrument Life+ of the European Union

BIOCOPAC Plus

SUSTAINABLE BIO-BASED COATING FROM TOMATO PROCESSING BY-PRODUCTS FOR FOOD METAL PACKAGING

UN RIVESTIMENTO SOSTENIBILE DI ORIGINE NATURALE PER LA PROTEZIONE DELL'IMBALLAGGIO METALLICO OTTENUTO DAGLI SCARTI DEL POMODORO

www.biocopacplus.eu

BIOCOPAC Plus

The main objective of the project is the production of a pilot plant for the extraction of the cutin from industrial tomato by-products. The cutin, a component of the tomato skins, is the starting material that will be used for the production of a bio-lacquer for the protection of metal food packaging.

The project, development of the project FP7 BIOCOPAC, aims to demonstrate at industrial scale the technical feasibility of the positive results obtained in laboratory.
The plant will develop a continuous process with a capacity of 100kg /hour.

The achievement of the BiocopacPlus objectives can certainly have a positive impact on the whole agro-industrial supply chain, from farms to large retailers, through lacquer and packaging manufacturers all the way to consumers.

ACTION PLAN

ACTION B.1
"Specifications and Requirements for Cutin Extraction Plant Production and Pre-polymerization"

ACTION B.2
"Plant Design and Prototypes Assembling for Cutin Extraction and Polymerization"

ACTION B.3
"Plant Testing and Cutin Extraction"

ACTION B.4
"Bio-lacquer Formulation, Production and Analysis"

ACTION B.5
"Demonstration of the Bio-lacquer Production and Application including Pack Test"

ACTION B.6 "Life Cycle Assessment (LCA)"

The project has several specific objectives that meet the needs of sustainable production and safe for the consumer:

To valorise the tomato industry by-products by offering alternative strategies for the waste use and minimization in accordance with Directive 2008/98/EC;

To optimize the prototype plant in terms of resources efficiency and saving (water, energy, emissions) and of economic sustainability;

To demonstrate the technological suitability of the bio-lacquerer for food packaging application and its sustainability by LCA analysis;

To demonstrate the compliance with the EU regulation for food contact materials of the new eco-cans.