



## WHERE ARE WE AT?



The MP prototype has produced BPs at ACEA for agricultural trials using compost from Cyprus, Greece, Spain, and Italy. This product is being validated in these countries, positively impacting the environment due to mineral fertilizers substitution. The FORSUD BPs

production and the validation preliminary tests in surfactants and bioplastics also started. UNITELMA leads the product registration as humic extract, as suggested by the product specifications and performance of Compost BP.

## THE NEXT STEPS

The project impacts will be further assessed in the next period using the results from the demonstration campaigns. This includes the effect of substituting or reducing fossil-derived products by using BPs on economics and emissions within the

waste management, agriculture, surfactants and plastic industries. Plus, a natural light driven photooxidation process is being optimized to clarify and lower the pH of the BPs, which is required for its utilization in surfactants.



## SUSTAINABILITY AND SOCIAL IMPACT



Consumers play a crucial role in the transition towards a more sustainable society. As new products are introduced to the market, consumer behavior must evolve accordingly. Encouraging sustainable habits starts with providing consumers with accurate and reliable information. In an era where fake news is prevalent, transparency is

essential for fostering a culture of environmental responsibility. By rigorously assessing the sustainability of products, companies and policymakers can ensure that consumers have access to truthful information, empowering them to make informed choices.

*Piergiuseppe Morone  
Unitelma Sapienza - Rome*

## EVENTS & DISSEMINATION



In the last period the project has reached several sectors, e.g. industrial, scientific and policy makers. HYSYTECH disseminated the project at ACHEMA and IFAT 2024, where key industrial stakeholders had access to its technology. Furthermore, the consortium organized a summer school at Catania last June 27<sup>th</sup> and 28<sup>th</sup>. The latest outcomes on the BP properties and improvements in agriculture and biopolymers thanks to its use were published by UNICT and UNITO, led by prof. Enzo Montoneri, in a scientific paper entitled “Enhancing Lettuce Yield through Innovative Foliar Spray of Biopolymers Derived from Municipal Biowastes” and “The Autocatalytic Chemical Reaction of a Soluble Biopolymer Derived from Municipal Biowaste”. For more info, visit [www.lifeebp.eu](http://www.lifeebp.eu) and the LIFE EBP project’s LinkedIn page.

## THE PROJECT PARTNERS CORNER

**ILARIA GALVAGNO**  
ACEA PINEROLESE  
INDUSTRIALE SPA



### What’s the role of ACEA in the project?

The role of ACEA is hosting the prototype and produce the required amount of BPs. ACEA supplies all the required utilities, such as cold and hot water, electricity, the space and the feedstocks. The ACEA personnel is essential for running the prototype and to produce the required amount of BPs for the scope of the project.

### Why is LIFE EBP an interesting initiative for your company?

The LIFE EBP project is useful for the ACEA purposes because it tries to valorize the two feedstocks used in the project, the solid digestate and the compost. It tries to valorize them producing bio-based solutions, which could be used in the chemical sector instead of the fossil fuels products.

### Which future prospects can arise from the project?

The perspectives that can be arise from the project are the use of this bio-based products as new fertilizers, surfactants and precursors of bioplastics. The problems that are bound to the use of these bio-based products are the boundaries that can arise from the national and European legislation.

## HYSYTECH

HYSYTECH is an engineering company founded in 2003, specialized in the design, development and industrial implementation of new turn-key process technologies and equipment. HYSYTECH’s skills start from the know-how in chemical and process engineering, up to commissioning, monitoring and maintenance.

Hysytech is the coordinating beneficiary of the LIFE EBP project and the developer of the multistep process included into the prototype for the production of the biopolymers.

