

# WORKSHOP: «PROGETTI LIFE D'ABRUZZO»

Pescara, 10 marzo 2023



## LIFE ALL-IN

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Fameccanica



# LIFE ALL-IN PARTNERS



*With the contribution of the LIFE Programme of the European Union.*



# FAMECCANICA

In numbers

+  
**700**

**EMPLOYEES**

+  
**750**

**REGISTERED  
PATENTS**

+  
**1200**

**MACHINES DELIVERED  
WORLDWIDE**



# FAMECCANICA

## WHAT WE DO



**CONVERTING**



**PACKAGING**



**FILLING**



**IN-LINE  
ASSEMBLY**



**ROBOTICS &  
AUOMATION**



**DIGITAL**



# FAMECCANICA

The sense of innovation at  
FAMECCANICA

“Non stop innovation  
is the culture of Fameccanica”

We aim to innovate to build a better  
future for everyone, every day.

Innovation and sustainability are  
now two sides of the same coin.

No innovation takes place where  
there is not the embrace of the  
concept of sustainability. Creating the  
best products on the market is just one part  
of Fameccanica's vision, which aims to  
actively contribute to the quality of life of  
end users with increasingly sustainable  
products and industrial processes.



# LIFE ALL-IN



LIFE19 ENV/IT/000230



# LIFE ALL-IN PROJECT

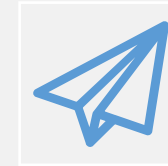
## Today's agenda



Project  
Concept



Actions & Results  
(Technical details)



Communication  
& Dissemination



# LIFE ALL-IN PROJECT

## PROJECT PURPOSE

LIFE ALL-IN aims to **shrink** the AHPs production chain by adding technologies on the manufacturing machines capable to **create** raw materials in line or to **enhance** their technical specification





# LIFE ALL-IN PROJECT

## PROJECT IMPACTS

LIFE ALL-IN solutions are expected to introduce **innovative concepts** in the AHPs sector, as well as the entire non-woven industry, having the great chance to move to a **lower cost business model** together with a **more environmental-friendly system**.

Up to **23%** of raw material savings per year

**10%** of CO2 emissions reduction each year

An annual cost reduction of **10%**



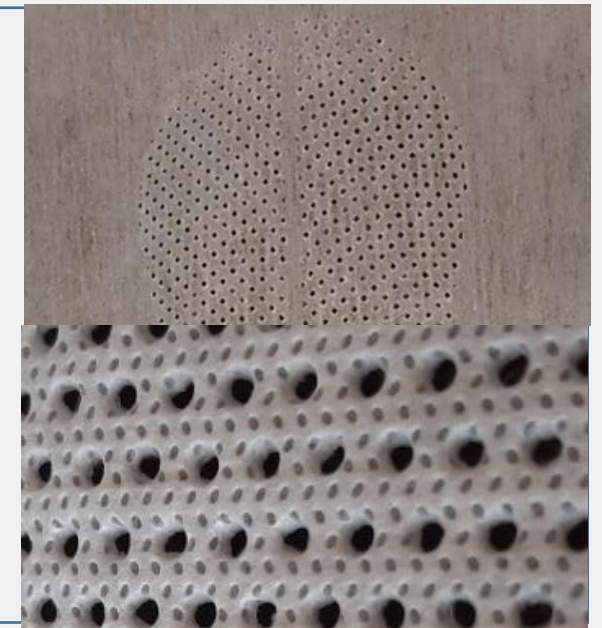
# ACTIONS & RESULTS

## 1. WEB TRANSFORMATION

THIS ACTION WILL REALIZE THE OPTIMIZATION AND IMPLEMENTATION INTO THE FINAL MACHINE OF TWO TRANSFORMATION PROCESSES, in line perforation (2D and 3D perforation) and in line creation of 3D non-woven material.

- ✓ Development of patented Holes-in-2D perforation unit and of the in-line vision system – HIGH PERFORMANCE PROCESS VALIDATED
- ✓ Development of 3D perforation process - HIGH PERFORMANCE PROCESS VALIDATED

VALIDATED



# ACTIONS & RESULTS

## 1. WEB TRANSFORMATION

VALIDATED

### 3D TOP SHEET

- ✓ Development of process and product with a specific pattern design (patent pending) for the in line creation of tri-dimensional nonwoven layers
- ✓ Implementation of a dedicated a Test stand in both single and double layer configuration
- ✓ THICKNESS RESULTS: From 0.37 mm to 1.02 mm
- ✓ Validation completed at 450 m/min



# ACTIONS & RESULTS

## 2. Fluff free Acquisition & Distribution Layer (ADL)

THIS ACTION WILL REALIZE  
THE IN LINE CREATION OF  
THE ADL FOR FLUFFLESS  
CORE

In line material creation will improve the entrapping technology with the following positive effects:

- ✓ optimize the SAP gradient distribution through the core layers
- ✓ reduce environmental impact due to transportation
- ✓ reduce raw material grammage
- ✓ reduce product cost

## PROGRESS



# ACTIONS & RESULTS

## 3. ELASTIC EXTRUSION

THIS ACTION FOCUSES ON THE INTEGRATION OF THE ELASTIC EXTRUSION PROCESS INTO THE AHPs MACHINES.

This process will avoid the use of pre-made elastics filament (e.g. Lycra threads)

- ✓ in-line elastics extrusion in narrow band process – VALIDATED
- ✓ corrugation process “ARIEL” – VALIDATED

The development of patented Ariel product and process offers to our customers a new concept of waist band for pant-type products.

VALIDATED

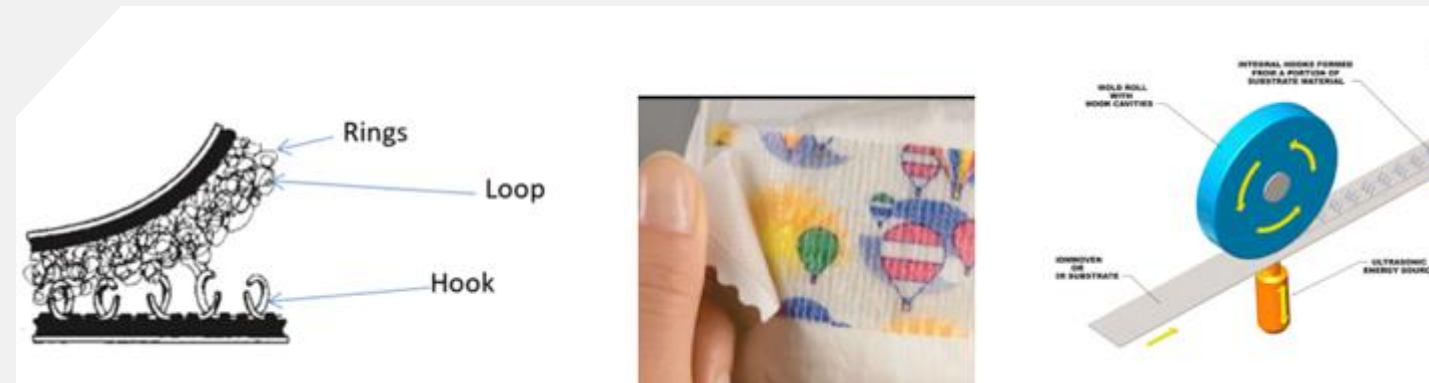


# ACTIONS & RESULTS

## 4. HOOK FOR FRONTAL TAPE CREATION

This action will integrate a new closure solution based on the transformation of a non-woven material into a hook-like surface that can then be used as fastening material to close and secure the AHP when it is worn.

PROGRESS



From premade hook material to in line process

# ACTIONS & RESULTS

## 5. PRODUCT TESTING AND VALIDATION

This action aims to validate the introduction of new technologies tested in Hygiene products. The complete product will be assembled with all the features developed in the 4 sub-processes described.

FATER, Associate Beneficiary, will conduct tests on the assembled products to demonstrate that the 4 sub-processes meet the full-scale performance criteria.



# LCA CALCULATION, DISSEMINATION AND POLICY IMPLICATION

In accordance with the LIFE ALL-IN program, FAMECCANICA will also have to take care:

1

**THE IMPACT OF THE PROJECT ACTIONS**  
by the environmental performance indicator definition and monitoring, the environmental impact assessment and LCA

2

**THE FOCUS ON THE POLITICAL AND SOCIAL IMPLICATIONS** of the project: economic growth, job creation and health benefits

3

**TO REACH THE GOAL OF DISSEMINATION, REPLICATION AND TRANSFER.**  
It will be important to reach as many customers as possible and to make networking in other application areas to establishing synergies with similar initiatives and other EU funded projects





# LIFE ALL-IN PROJECT

## Our Dissemination system

How communication strategy serves the dissemination

### Website

<https://www.life-all-in.eu/>

### Social Media



life-all-in



LIFE\_ALLIN

### Our initiatives

**NEWSLETTER**

**WEBINAR**



# GRAZIE



LIFE19 ENV/IT/000230

LIFE ALL-IN The logo for LIFE ALL-IN, featuring the text "LIFE ALL-IN" in a bold, sans-serif font, with "ALL-IN" in green and "LIFE" in blue. To the right of the text is a small green leaf icon.