



# MagnoLab

TEXTILE INNOVATION DISTRICT

## This is the ecological impact of the textile sector



**WASTE**  
**3.8 billions kg**  
of waste added  
to our landfills



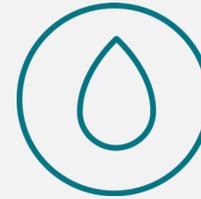
**LAND**  
**400mq of land**  
per person on average  
in EU every year



**AIR**  
**1.2 billion tons**  
of CO<sub>2</sub> produced  
each year



**CHEMICALS**  
**Over 3500**  
substances  
used in the textile  
production



**WATER**  
**86 billion m<sup>3</sup>**  
of water  
per year



**ENERGY**  
**0,5 Kwh**  
of electricity needed  
per meter of fabric

It is necessary and urgent to develop concrete solutions to make the sector more sustainable: research, innovation, skill sharing, and swift and effective collaboration are the essential elements to initiate a true change towards circularity.

# Welcome to MagnoLab.

MagnoLab is the network of textile supply chain enterprises established to develop concrete solutions for the industry, create value, and collaborate on current and future needs. A team of key players in the textile world, uniting their respective know-how to develop innovation in a structured manner.



# Our mission.

Developing concrete solutions for the sector, creating value, and collaborating on current and future needs, this is MagnoLab.



Implementing projects in sustainability and the circular economy with a joint, participatory approach among partners.



Generating value by developing innovative products and processes with rapid experimentation cycles, on the basis of the lean management model.



Supporting the world of education by making the plants machinery available to schools and universities.



## How MagnoLab works.

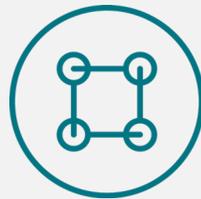
MagnoLab's strength lies in a physical network of industrial plants dedicated to prototyping, installed at a single site in Cerrione (Biella), where it is possible to collaboratively develop innovative products and processes with rapid and streamlined experimentation cycles.



**NETWORK**



**SINGLE  
SITE**



**ENTIRE  
SUPPLY CHAIN**



**R&D**



**TRAINING**



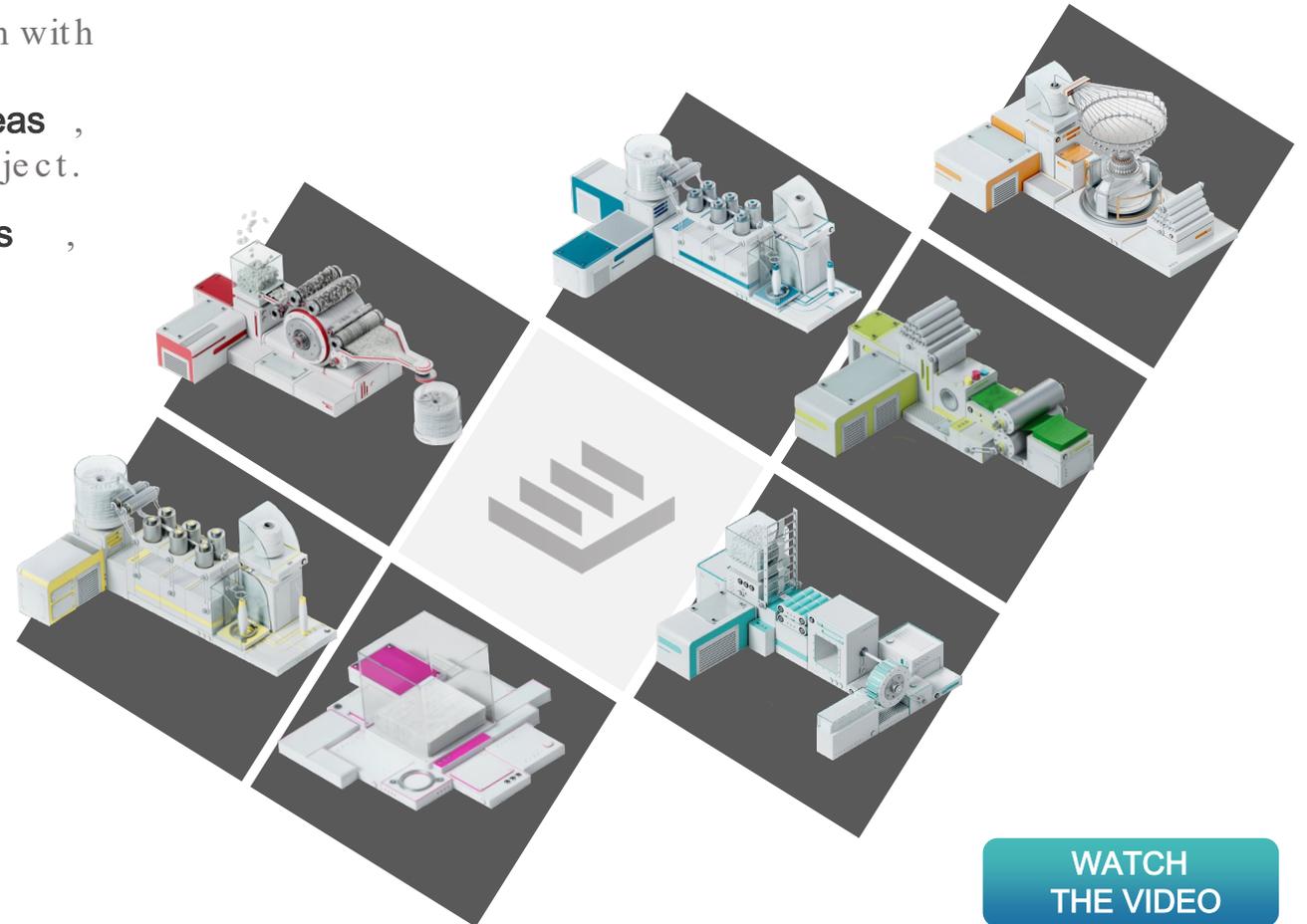
**ECO  
DESIGN**

# Manufacturing Processes

Collaboration among all partners in a **shared space**, each with their own know-how and added value, creates a virtuous mechanism of **exchange**, **discussion**, and **synthesis of ideas**, ensuring a high rate of innovation for each individual project.

All projects are managed with **rapid experimentation cycles**, according to a **lean management** model.

-  Machinery
-  Fiber
-  Spinning
-  Fabric
-  Finishing
-  Garment
-  Applications



[WATCH  
THE VIDEO](#)

# The Network

MagnoLab is a network of enterprises set up in 2022 by a group of companies active for more than 50 years, which operate in various parts of the textiles industry with complementary roles in the production chain, working together in synergy and sharing the same goals, enterprising spirit and farsightedness.

The ecosystem of collaborations at MagnoLab includes three levels of membership: **Partner**, **Associate**, and **Sponsor**.

The fundamental requirement is the **willingness to actively participate** in the projects. We aim to reduce the environmental impact of the textile supply chain through innovative and concrete solutions.

**If you share our mission, join MagnoLab!**

## Partner



## Associate



## Sponsor



## Interaction with the world of technical education

One of MagnoLab's truly outstanding and innovative qualities is the ability to establish connections and partnerships with educational institutes in the field of textiles and fashion, in Italy and abroad.

MagnoLab acts as a link between the worlds of education and enterprise, promoting interaction and implementation of concrete projects.

MagnoLab is a unique place combining teaching with research and development in a system as complex as the textiles industry itself, in which students can play an active role in the research projects under way and form connections with the market.



The collaboration between MagnoLab and ITS TAM allows the Institute's students to access fully equipped laboratories to develop and practically test their ideas.

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## MagnoLab in numbers

21

### Companies

10 Partners present with their pilot plants,  
plus 6 Associate and 5 Sponsors

+

### Partners, Associate, Sponsor

New partners are welcome to join the network.

600 M€

### Revenues

Total revenues of the network

3000

### Employees

working in different company

10

### Country

In which we are present



# Texploration

MagnoLab



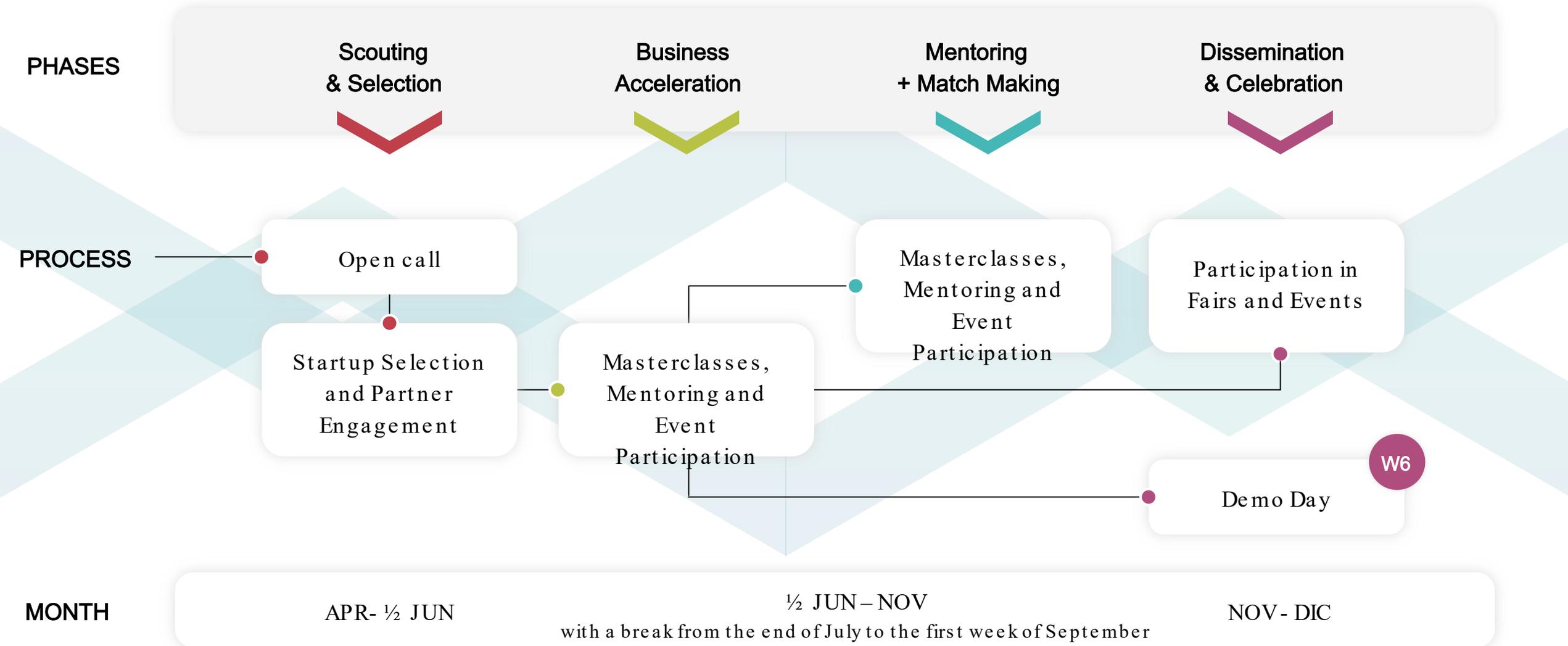
“Twenty years from now you will be more disappointed by the things you didn’t do than by the ones you did do. So throw off the bowlines, sail away from the safe harbor. Catch the trade winds in your sails. Explore. Dream. Discover.”

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Mark Twain

At Texploration, we believe in the power of innovation and things waiting to be discovered. We foster the value of cooperation and choralty in addressing the challenges and journey towards innovation. Every collaboration is a journey into new possibilities.

# Timeline



## Texploration in numbers

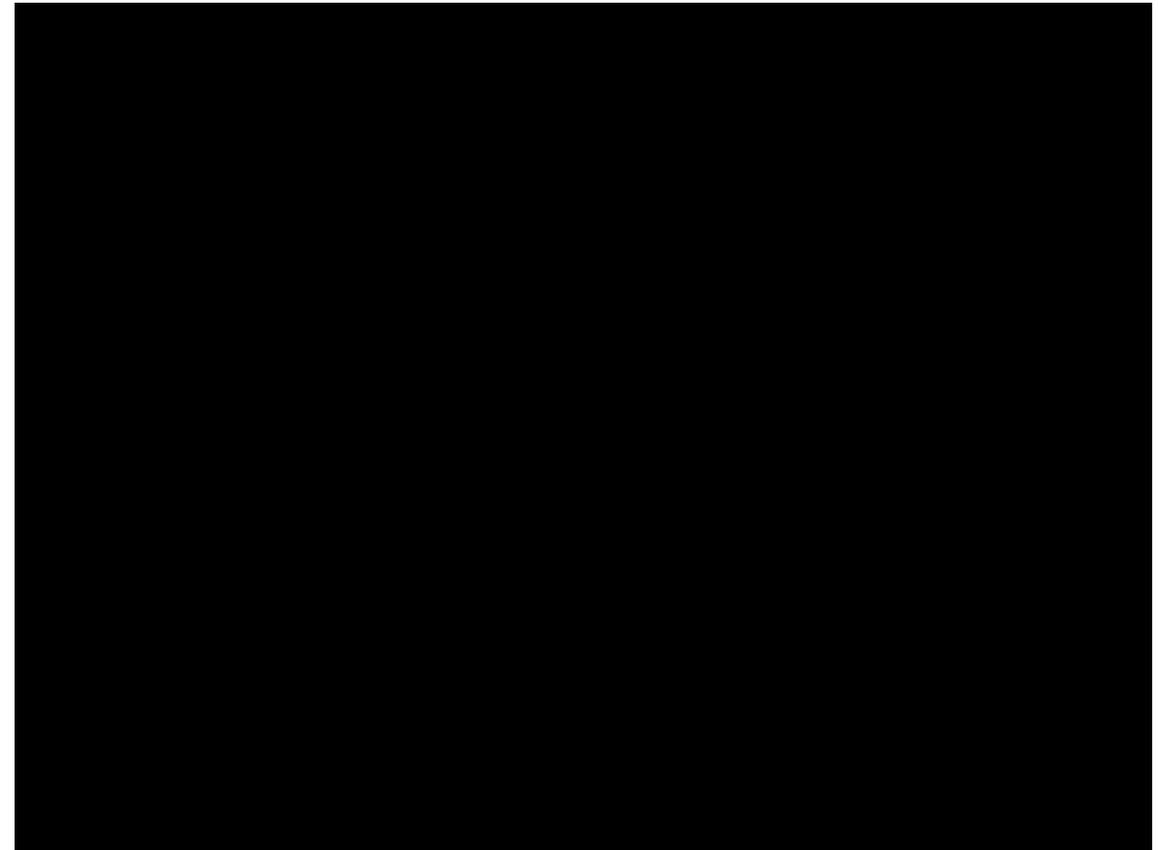
**177** startups directly contacted

**77** ecosystem partners involved,

**69** applications received,

**19** startups shortlisted for interviews,

**15** pre-selected to meet MagnoLab.



# Magnolab double positive impact



Magnolab aims to have positive impact on two main aspect:



On the **supply chain** by:

- Generating innovation and synergy among the partners.
- Developing new technologies to make the partner more competitive and sustainable.
- Attracting the younger generation to this sector.



On the **Biella Area** by attracting people interested in this sector, with the potential to:

- Increase secondary business with local partners.
- Open the possibilities for new companies to start operating in the area
- Increase the population of the area.
- make Biella an example for all the textile sectors.

## How we can collaborate



Recycling of textiles.



Processing and industrialization of prototype clothes, with rapid experimentation cycles and analytics reporting.



Developing innovation through streamlined and efficient processes for identifying, prioritizing, developing, testing, and measuring solutions for specific market needs.



Workshops and education.



Active entry into the MagnoLab network, with three different membership options: Partner, Associate, Sponsor.



Open innovation activities

## Level of membership:

The MagnoLab network offers three levels of membership:



**Partners:** We seek partners who are actively engaged in all aspects of the center's operations, acting as true collaborators. We are looking for partners who are willing to relocate personnel and machinery to the center to drive the development of cutting-edge technologies.



**Associates:** We welcome partners who are interested in participating in the center's activities but may not be able to relocate personnel or machinery to MagnoLab. Associate members enjoy nearly the same privileges as full partners.



**Sponsors:** We welcome sponsors who are passionate about our mission and wish to contribute (financially or in kind) to be part of the marketing and communication initiatives.

# Plan your visit to MagnoLab



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