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# INNOVATIVE HEMP VALUE CHAIN FOR COMPOSITE REINFORCEMENTS

## INDUSTRIAL ACHIEVEMENTS AND PERSPECTIVES

**Pierluigi Fusco Girard**

**CEO Linificio e Canapificio Nazionale – Marzotto Lab**

**Clara Dughetti**

**Sustainability & Innovation Manager Linificio e Canapificio Nazionale – Marzotto Lab**

# LINIFICIO CANAPIFICIO NAZIONALE

- European leader in the production of linen and hemp yarns
- Annual production: 4.5 mln kg of yarn  
1 mln metres of fabric
- Turnover: 50 mln €
- Employees: 950
- Linen chain: 100% European and integrated
- Recognised worldwide as an Italian Innovation Hub
- Benefit Corporation



*Linificio Canapificio Nazionale*

## INDUSTRIAL ACHIEVEMENTS

- Use of a European hemp fibre, cultivated and processed in France and Italy.
- Study and industrialization of an innovative process for producing a low-twist hemp yarn suitable for weaving.
- Production of high-performance hemp fibre reinforcement fabrics for composite applications.



# INDUSTRIAL ACHIEVEMENTS



1.



2.



3.



*Istituto Nazionale per lo Studio e l'Utilizzo della Fibra di Canapa*

# INDUSTRIAL ACHIEVEMENTS



4.



5.



6.



# INDUSTRIAL ACHIEVEMENTS



*Istituto Nazionale per lo Studio e l'Utilizzo della Fibra*

## INDUSTRIAL PERSPECTIVES

- We consider the opportunity of developing a new market of composite applications, for an estimated annual volume of our production of about:
  - 10% yarns
  - 15% fabrics
- Environmental and social sustainability of the European supply chain for the fibre, the yarn, and/or fabric will enhance our Italian production site.



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