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# INNOVATIVE HEMP VALUE CHAIN FOR COMPOSITE REINFORCEMENTS

**INDUSTRIAL ACHIEVEMENTS AND PERSPECTIVES** 

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#### 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





- 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.









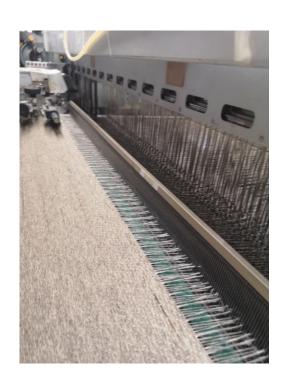


1.

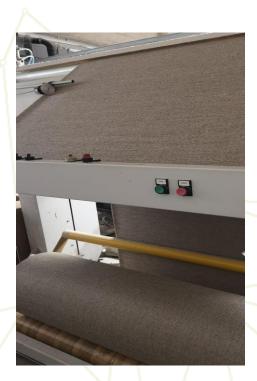
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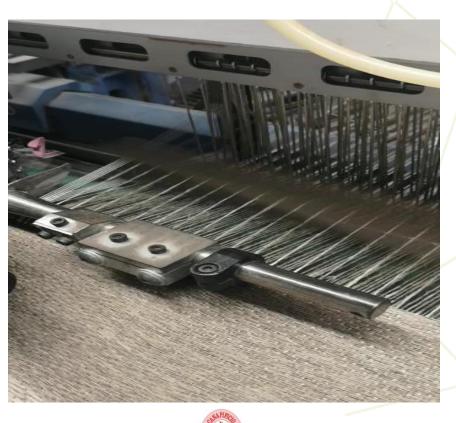


4.

5. 6.











#### **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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