

Alliance for European  
Flax-Linen & Hemp



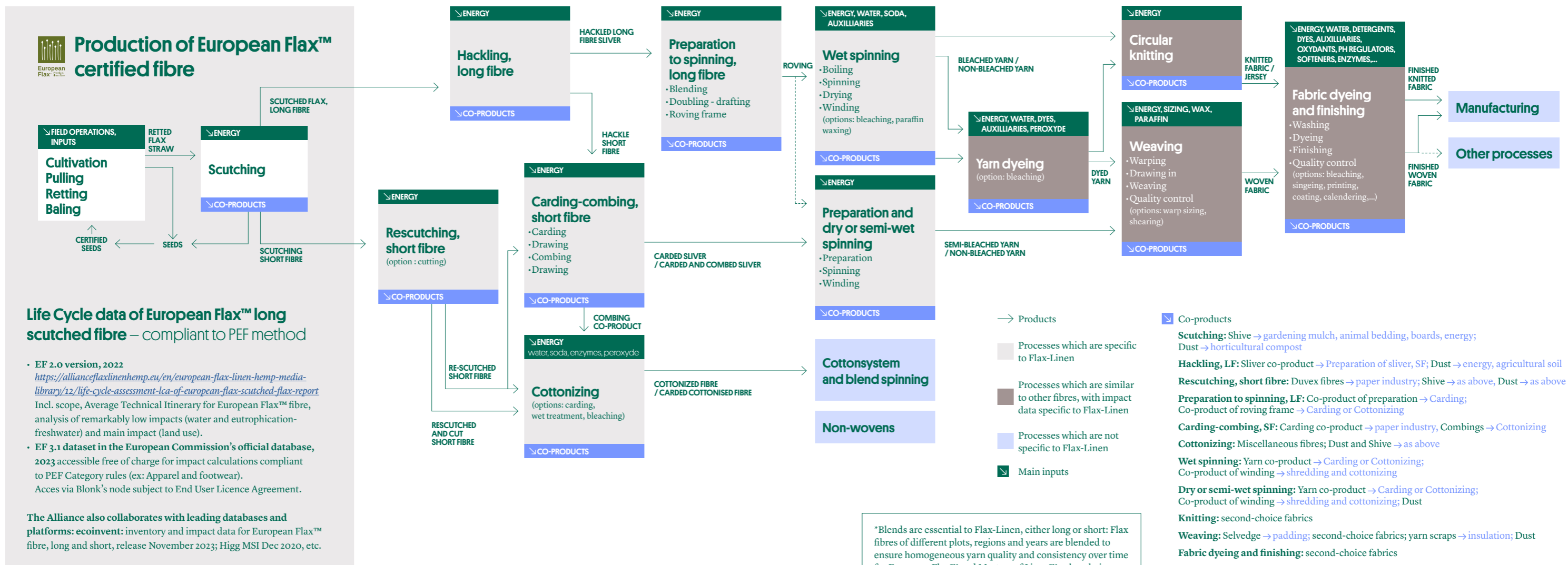
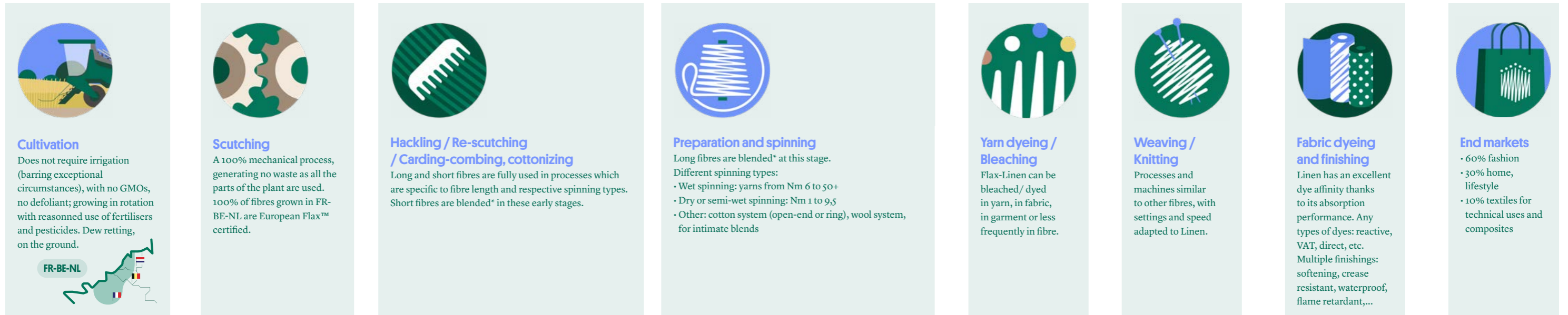
# Mapping of processes for European Flax-Linen

Map your Flax-Linen value chains to identify relevant data, measure the impacts of your products and build your environmental trajectory.

V2 - October 2023



# Mapping of processes for European Flax-Linen



→ Products

↘ Co-products

→ Processes which are specific to Flax-Linen

→ Processes which are similar to other fibres, with impact data specific to Flax-Linen

→ Processes which are not specific to Flax-Linen

→ Main inputs

**Scutching:** Shive → gardening mulch, animal bedding, boards, energy; Dust → horticultural compost

**Hackling, LF:** Sliver co-product → Preparation of sliver, SF; Dust → energy, agricultural soil

**Rescutching, short fibre:** Duvex fibres → paper industry; Shive → as above, Dust → as above

**Preparation to spinning, LF:** Co-product of preparation → Carding; Co-product of roving frame → Carding or Cottonizing

**Carding-combing, SF:** Carding co-product → paper industry, Combing → Cottonizing

**Cottonizing:** Miscellaneous fibres; Dust and Shive → as above

**Wet spinning:** Yarn co-product → Carding or Cottonizing; Co-product of winding → shredding and cottonizing

**Dry or semi-wet spinning:** Yarn co-product → Carding or Cottonizing; Co-product of winding → shredding and cottonizing; Dust

**Knitting:** second-choice fabrics

**Weaving:** Selvage → padding; second-choice fabrics; yarn scraps → insulation; Dust

**Fabric dyeing and finishing:** second-choice fabrics

**Also taken into account:** emissions (fields, factories) - waste (wastewater) - packaging

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## Following the LIFE-CYCLE ANALYSIS OF EUROPEAN FLAX™ SCUTCHED FIBRE, PEF method 2022\*, Alliance for European Flax-Linen & Hemp has launched a vast collective study with the entire European industry of Flax-Linen.

### Objectives:

- To encourage companies to set their own environmental trajectory;
- To provide reliable data to brands and databases on each Flax-Linen process at European level, with a timetable for updates;
- Respond to consumer expectations;
- Anticipate regulatory changes.

The first deliverable of this project, this **Mapping of Processes for European Flax-Linen** allows companies to facilitate dialogue with their **Flax-Linen value chains** and to identify the data sets necessary to **measure the impacts** of their products and to build their **environmental trajectory**.

Each processing stage of European Flax™ fibres, long and short, will be the subject of a dedicated environmental footprint dataset, representative of the industrial average at European level. Publication expected in the 1st half of 2024. The support of Alliance for European Flax-Linen & Hemp and its experts will also enable its Members to calculate the footprint of their own processes, in order to provide an even more specific response to their customers and to manage their environmental performance, with a perspective for improvement over time.

\*Study commissioned by Alliance for European Flax-Linen & Hemp, carried out by YUKAN with the expertise of the agricultural institutes ARVALIS and INAGRO and critical review by MAKI CONSULTING. Version compliant to EF 2.0 accessible for download: <https://allianceflaxlinenhemp.eu/en/european-flax-linen-hemp-media-library/12/life-cycle-assessment-lca-of-european-flax-scutched-flax-report>

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## ABOUT

The Alliance for European Flax-Linen & Hemp is the only European agro-industrial organisation that serves as a global reference and brings together all players in the European Flax-Linen and Hemp value chain.

A platform for reflection, market analysis, dialogue, and strategic orientation, the Alliance for European Flax-Linen & Hemp presides over an industry of excellence in a globalised context. It encourages dialogue with national and European public authorities.

The Alliance for European Flax-Linen & Hemp creates an environment favorable to competitiveness among businesses as part of its three-fold mission of informing members, brands, and consumers, supporting the European ecosystem and European expertise, and promoting European Flax-Linen and Hemp as the sustainable premium fibres of choice around the world.

It connects 10,000 businesses in 16 European countries and bases its work on the values of solidarity, innovation, scientific validation, and respect for people and planet.

It promotes, initiates and organises strategic reflections and research on its fibres in order to be able to provide all of its interlocutors with evidence-based economic data, environmental information, and reliable scientific evidence.

The Alliance for European Flax-Linen & Hemp strives to increase the international visibility of its fibres, whose technical and environmental properties inspire global creation and help create new opportunities for industrial innovation. It guarantees the traceability of Flax fibre thanks to the EUROPEAN FLAX™ and MASTERS OF LINEN™ certifications.

The Alliance for European Flax-Linen & Hemp is the new name of CELC, an association founded in 1951. Western Europe is the number one Flax-producing region in the world (France, Belgium and the Netherlands account for 3/4 of global Flax production).

*European Flax™: The guarantee of traceability for premium quality flax fibres grown in Western Europe for all end uses. A plant fibre, produced through farming that is respectful of the environment, without irrigation\* or GMOs.*

*Masters of Linen™: Guarantee of traceability for Linen made by European companies on European and Euromed 1 sites. A textile of excellence, local at all stages: from the vegetal European Flax™ fibre, to yarn and fabric.*

\*except in exceptional circumstances



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