Textile Exchange

Impact Data: LCA Priorities

February 2023

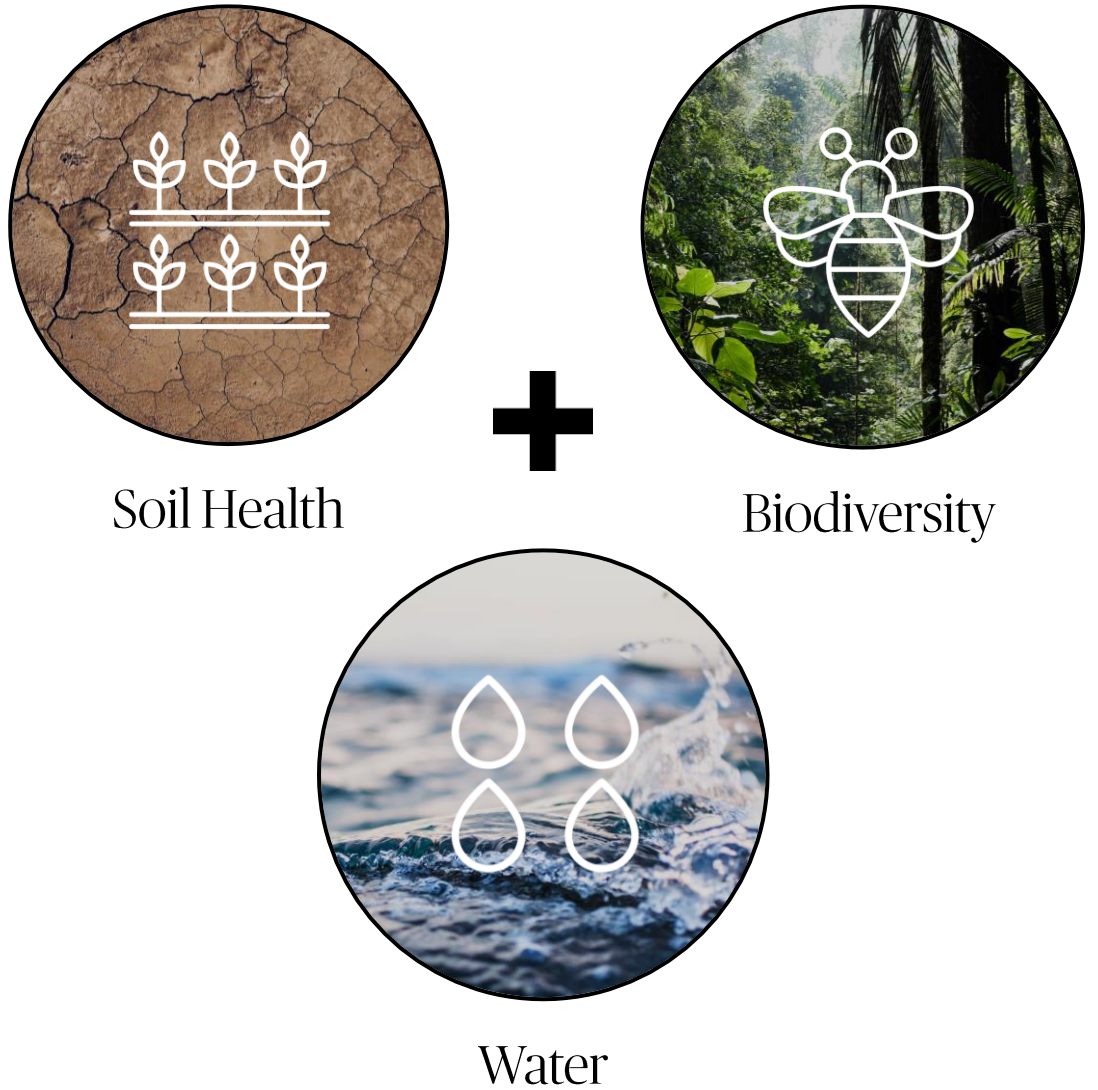
CLIMATE+

Climate+

Textile Exchange - Vision 2030

A driving force for urgent climate action in textile fiber and materials production. Enabling and guiding the textile industry to reduce GHG emissions (CO_2 equivalents) 45% by 2030 in the pre-spinning phase of textile fiber and materials production.

Grounded in Partnership+
Amplifying positive impacts in soil health, water, + biodiversity.



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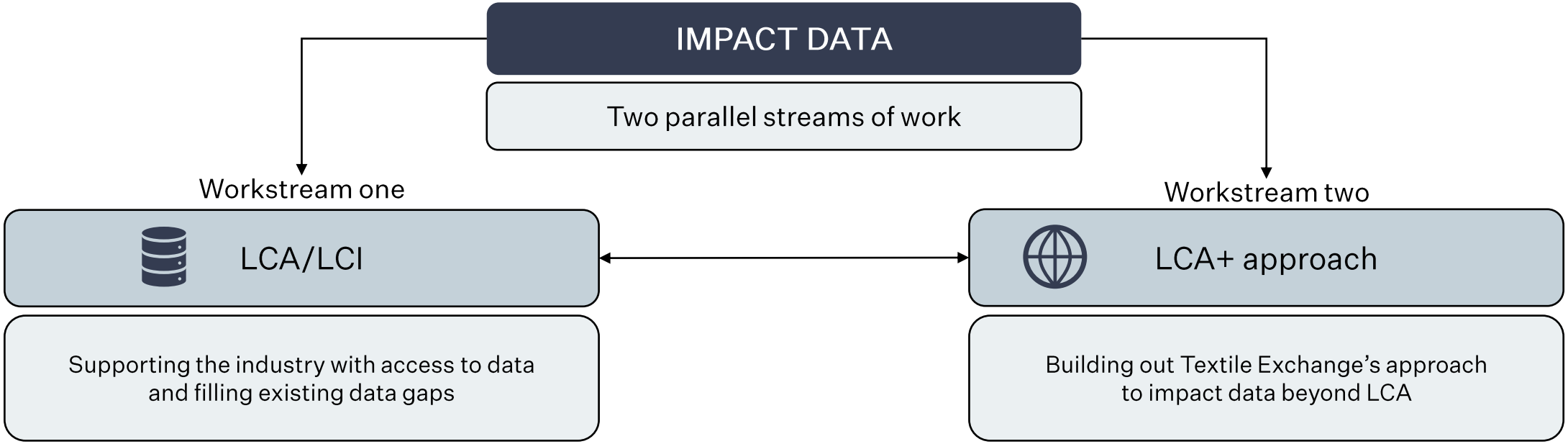
Impact data – Textile Exchange's workstreams



Addressing LCA Data Gaps for the Industry

Why is there a need for improving Impact Data?

Better & representative data is needed

Increased urgency

Collaboration is required

Work has already started

Textile Exchange is committed to accelerating the development of additional LCA studies to fill key data gaps.

Addressing LCA Data Gaps: Desired Outcomes

What are our desired outcomes?

Improve data representativeness

- Input from brands and industry stakeholders
- Maximize coverage

Enable data accessibility

- Data, assumptions and methods will be publicly available

Ensure data usability

- Studies to be included in industry LCA databases/ tools
- Inventory data included in Textile Exchange's LCI Library

Identifying impact data gaps & priority studies

Method for defining priority LCA data gaps

What is an impact data gap?

I. The complete absence of data for a material/fiber type

II. Where current data needs to be updated

Limited data makes it challenging to understand current impacts, determine interventions for GHG reduction roadmaps against climate targets, and even to understand the magnitude of impact associated with a given fiber/raw material type.

Results of Textile Exchange's prioritisation method

HIGH

Cotton – conventional and organic cotton

Polyester – virgin and recycled

Cattle leather – conventional
- **Goat Leather** – conventional
- **Sheep Leather** – conventional

LCA studies already in development:

Wool – program specific

Mohair – program specific

Cashmere – conventional

MEDIUM - HIGH

Polyester – biobased

Nylon – biobased

Nylon – conventional and recycled

Acrylic – conventional and recycled

MEDIUM

Silk
Elastane
Viscose
Cupro
Modal
Alpaca

MEDIUM - LOW

Flax
Hemp
Acetate
Lyocell
Natural rubber
Polypropylene

LOW

Yak hair
Camel hair
Llama
Vicuna
Guanaco
Down
Bamboo
Other plant-based fibers

Highlights priority fiber/material for 2022/2023

NOTE: Work on Nylon and Acrylic may be accelerated in 2023.

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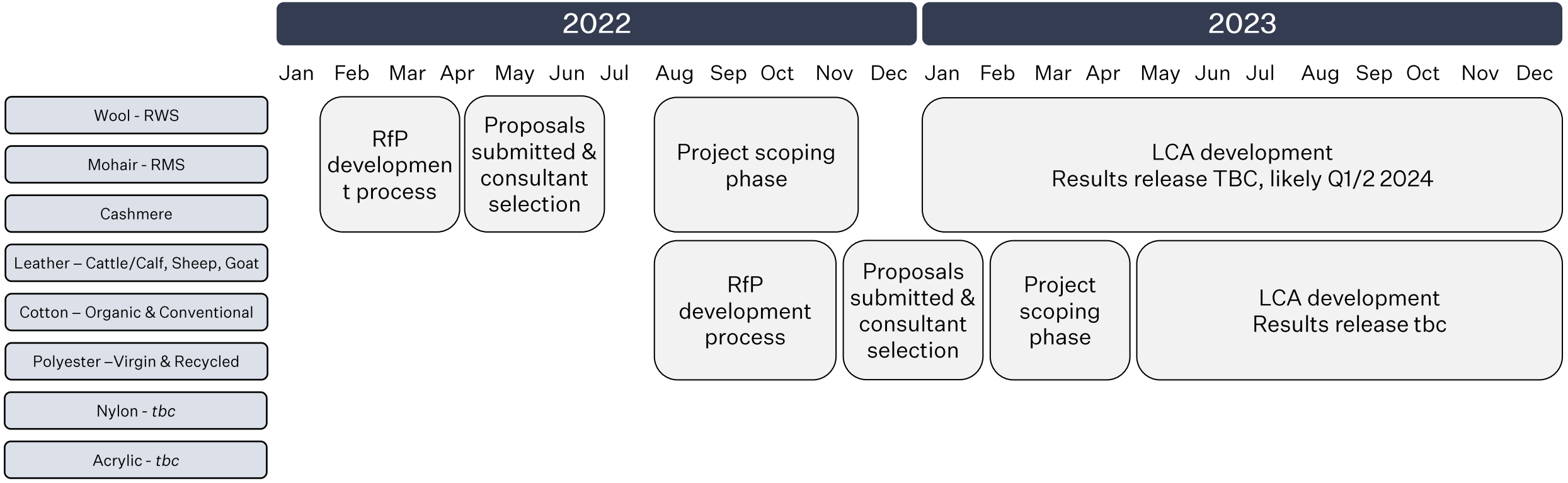
Status of priority LCA studies



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Cashmere LCA deep dive
Recording – IAE

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Thank you