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# **MATERIAL SORTING & PREPROCESSING AND RECYCLING EXPERIMENTS**

Rules of Refashion Experiments

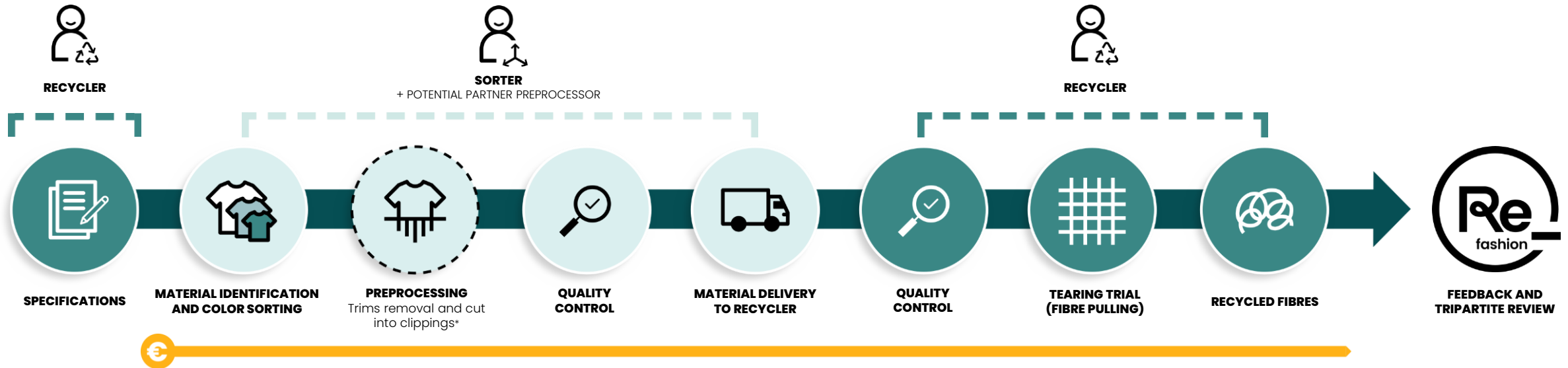
**Sorting Operators and Preprocessors**

# Stages of a Material Sorting & Preprocessing and Recycling Experiment

Example: material sorting and preprocessing of non-reusable post-consumer textiles to obtain fibers

The aim of the experiment is to test the preprocessing of non-reusable post-consumer textile or footwear feedstock according to the recycler's specifications, with a view to recycling the material thus preprocessed.

Recyclers' specifications are made available only to sorters & preprocessors registered on the [Refashion Recycle](#) platform.



Refashion funds the experiment and monitors exchanges between the experiment participants

# Terms and conditions for launching an experiment



## Sorters & Preprocessors

To launch an experiment, a **minimum of 2 material sorting and preprocessing operators\*** must have chosen a same set of material specifications. The identities of each participating operator are kept confidential.

For any material preprocessing operation that cannot be carried out in-house, sorting operators will be able to find a partner preprocessor on [Refashion Recycle platform](#).



## Complete annexes

To respond to specifications, the operator must complete on the [Recycle Experiments Area](#) an **annex** detailing **the methodology and costs** of the sorting and material preprocessing operations to meet the specifications (1 annex per specification).

If material preprocessing operations are subcontracted, information on the methodology and costs of the partner preprocessor must be included in the same annex.



## Data collection

The material sorting and preprocessing operator (and, where applicable, its partner preprocessor) undertakes to **communicate data relating to the experiment** (volumes processed, time spent, associated costs) to Refashion and Deloitte.

The data collected is strictly confidential.

*\*Only material sorting and preprocessing operators registered on the [Refashion Recycle platform](#) can access to the Experiments Area with the material specifications ; **these are confidential and must not be shared***

# Scope and financing conditions

## Operators

| <div> <div>Signing of the contract and launch of the experiment</div> <div>  <b>1. Sorting</b> </div> <div>  <b>2. Material preprocessing</b> </div> <div>  <b>3. Sending of the batch of material</b> </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator and preprocessors commitments                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>The sorting operators and preprocessors undertake to:</p> <ul style="list-style-type: none"> <li>• <b>Sort and preprocess the material</b> according to the method detailed in the annex to the contract signed with Refashion.</li> <li>• Monitor and communicate the <b>data relating to the experiment</b> via an Excel file sent prior to the experiment.</li> </ul>                                                                                                                                       | <p>The operators (and preprocessors partners) undertake to send the prepared material to the Recyclers under the conditions agreed together**.</p>                                                                                                                    |
| Refashion financing                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>✓ Refashion financing within a validated limit*</p> <p>Reimbursement of sorting operations, material preprocessing, and quality control(s) by Refashion within a validated limit:</p> <ul style="list-style-type: none"> <li>• based on pre-experimentation budgeted costs (<b>annex to be completed</b>)</li> <li>• upon presentation of administrative documents (bank details, registration and tax regularity certificates) and post-experimentation <b>invoices</b> (a model can be provided).</li> </ul> | <p>✓ Refashion financing</p> <p>Reimbursement of actual transportation costs:</p> <ul style="list-style-type: none"> <li>• <b>within the limit of the estimated amount</b> in the annex</li> <li>• upon presentation of the transporter's <b>invoices</b>.</li> </ul> |
| Admin                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>Completion and signature of a contract including the Recycler's specifications and an <b>annex detailing the methodology and costs</b> (estimate) for the sorting, material preprocessing, quality control(s) and transport.</p> <p><i>For cross-border shipments:</i> if required by the Recycler, completion of the Annex 7 on cross-border shipments of waste.</p>                                                                                                                                          |                                                                                                                                                                                                                                                                       |

\*Refashion reserves the right to validate the amount of the reimbursement limit after review of the completed annexes by Operators. It will be communicated prior to the experiment.

\*\*Before packaging and sending the batch, it is strongly recommended that Recyclers check the material on-site or through pictures sent by the Operators to ensure batch conformity.

# Contractual formalities – Annex

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Section 1: Response to the specifications: > 90% coton noir

Part A: General information

**I - Stakeholder of the experiment project\***

Name and address of the establishment where the sorting for recycling and preprocessing steps take place

Annual sorting capacity (tonnes)

**II - Duration of the experiment\***

Duration of sorting steps (working days)

Estimated time from transport to transformer-recycler (working days)

**III - Transport\***

Distance between final lot preparation site and transformer-recycler (km)

Cancel <

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The eco-organization for the Textile Industry

1/ Methodology to be completed for **specification 1**

Green cells: if the same sorting and material preparation methodology applies to several specifications, you can complete the methodology for one CDC only once and make a cross-reference ("same as in **specification X**") in the tables for the other specifications.

2024 - Material Sorting & Preprocessing experiment project - **Specification 1**

Stakeholders involved in the Material Sorting & Preprocessing experiment project:

Address(es) of the facility(ies) where material preprocessing operations will take place: to be completed

Annual sorting capacity (in tons): to be completed

Detailed description of Material Sorting & Preprocessing Operations:

| Specification 1 - Batch size                                  |                                                                                                        |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>1. General information</b>                                 |                                                                                                        |
| Total duration of the experiment                              | Duration of sorting operations (in working days)                                                       |
| Transport                                                     | Duration of material preprocessing operations (in working days)                                        |
|                                                               | Estimated time for transport to the recycler (in working days)                                         |
|                                                               | Distance between final batch preparation site and recycler (in km)                                     |
| <b>2. Material sorting</b>                                    |                                                                                                        |
| Methodology:                                                  | Describe the material sorting operation                                                                |
| Equipment                                                     | Equipment used: spectrometer, automated sorting line, etc.                                             |
| Input CHP products*                                           | T-shirts, pullovers, swimming suits, etc. - to be updated                                              |
| Quality control after material sorting (not compulsory)       | Describe the methodology and equipment used: visual, label reading, spectrometer, etc.                 |
|                                                               | Size of sample tested (in kg)                                                                          |
| <b>3. Color sorting</b>                                       |                                                                                                        |
| Methodology:                                                  | Describe the color sorting operation                                                                   |
| Equipment                                                     | Equipment used: RGB camera, etc.                                                                       |
| Selected color                                                | If applicable                                                                                          |
| Quality control after color sorting (not compulsory)          | Describe the methodology and equipment used: visual, automated, etc.                                   |
|                                                               | Size of sample tested (in kg)                                                                          |
| <b>4. Trim removal operation</b>                              |                                                                                                        |
| Externalized stage?                                           | If this operation is carried out by an external partner, specify their contact details (name, address) |
| Methodology:                                                  | Describe the trim removal operation                                                                    |
| Equipment                                                     | Equipment used: scissors, etc.                                                                         |
| Quality control after trim removal operation (not compulsory) | Describe the methodology and equipment used: visual, automated, etc.                                   |
|                                                               | Size of sample tested (in kg)                                                                          |
| <b>5. Format operation</b>                                    |                                                                                                        |
| Externalized stage?                                           | If this operation is carried out by an external partner, specify their contact details (name, address) |
| Methodology:                                                  | Describe the format operation                                                                          |
| Equipment                                                     | Equipment used: grinder, pullotine, etc.                                                               |
| Quality control after format operation (not compulsory)       | Describe the methodology and equipment used                                                            |
|                                                               | Size of sample tested (in kg)                                                                          |
| <b>6. Packaging for shipment</b>                              |                                                                                                        |

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Batches of material must come strictly from post-consumer household textiles or footwear (*no professional workwear / footwear*).

The specifications can be consulted on the [Experiments Area of Recycle](#). They are **confidential and must not be shared**.

For each specification published, an annex including methodology and financial evaluation must be completed **as accurately as possible** on the [Experiments Area of Recycle](#).

A user guide is available [here](#).

⇒ It is strongly recommended to **carry out tests on small quantities** to provide the most accurate cost estimates possible.

Refashion will select the experiments to be launched according to the following **criteria**:

- ☐ **Relevance of the experiment project** with respect to the recycler's specifications
- ☐ **Objectives of the presented experiment project** (weight, deadlines, cost estimates)
- ☐ **Project organization** (including the choice and quality of partners for certain material preparation operations) **and resources** (including human resources deployed for material preparation operations and quality controls)
- ☐ **Optimization of the funding request** to Refashion

*It should be noted that Refashion regularly organises experiments' campaigns: any operator that have not been selected for a given campaign may be selected for a future one.*

# Support and monitoring of the experiments

With the support of consultancy Deloitte



## Kick-off meeting\*

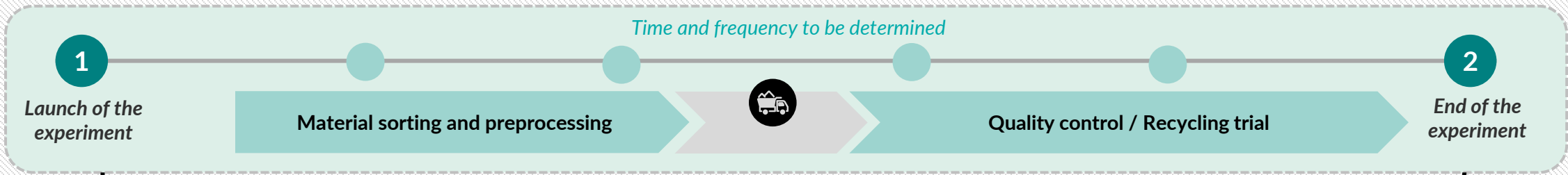
- **Time:** 30min
- **Participants:** sorter/ preprocessor + recycler + Refashion/Deloitte
- **Objectives :**
  - Experiment conditions: specs, planning, contact persons, data to collect
  - Questions & answers

## Follow-up meetings

- **Time:** 15 to 30min (depending on the needs)
- **Participants:** Refashion/Deloitte + Operator
- **Objectives :**
  - Experiment progress monitoring and identification of any potential difficulties
  - Questions & answers

## Assessment meeting

- **Time:** 45 min
- **Participants:** sorter/ preprocessor + recycler + Refashion/Deloitte
- **Objectives :**
  - Presentation of the results by the recycler
  - Discussion, questions & answers
  - Next steps



## Before the launch of the experiment

- ☐ Have signed the contract with the completed annex
- ☐ Send the administrative documents (bank details, registration and tax regularity certificates)

## At the end of the experiment

- ☐ Return the completed REX/feedback file (data collected)
- ☐ Send the experiment invoice

\*The kick-off meeting will be organized once the contract has been signed by the operator and the recycler

# **Any questions?**

Consult the documents available [here](#) or  
contact [experimentations@refashion.fr](mailto:experimentations@refashion.fr)

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