



4sustainability® is the Process Factory mark highlighting the adherence of textile and fashion & luxury companies to the sustainability roadmap. The implementation of each roadmap initiative is verified and measured annually based on a structured protocol of activities.



Loro Piana Spa  
has joined the 4sustainability® Commitment  
and applies the Chemical Management Protocol  
for eliminating toxic and harmful substances in production  
through the ZDHC MRSL.

**CHEM  
IMPLEMENTATION LEVEL**



<b>COMPANY ID Nr.</b>	4S-100406		
<b>AUDIT RATING:</b>	70%	<b>VERS. STD CHEM:</b>	4.0
<b>VALIDATION DATE:</b>	10/01/2022	<b>VALID UNTIL:</b>	10/01/2023

Rilasciato da Francesca Rulli (CEO)  
Process Factory s.r.l.  
Via A. Da Noli, 4/6 - 50127 Firenze  
CF/P.IVA: 058052004





# ABSTRACT

## 4s Audit Report Chemical Management Version 4.0



Loro Piana Spa

### 4s REQUIREMENTS

#### Management system

Evaluating the implementation of a chemical management system within the company. The verified requirements range from the presence and communication of an internal sustainability policy, to staff training, as well as to the definition of reduction targets and monitoring of over-time performance.

#### Chemical risk management

Assessing chemicals risk management within the factory. The verified requirements measure the chemical inventory information management, the related qualification level to ZDHC MRSL 2.0, and related pahse put plan and improvement plan.

#### Materials risk management

Assessing the management and control system of incoming materials and their compliance level with 4sustainability PRSL, as a tool for reducing the risk of incoming contamination in the production process.

#### Supply Chain assessment

Evaluating the company's supply chain management and assessment. The verified requirements measure the mapping activity, qualification, engagement, training and monitoring of subcontractors and material suppliers and all the procedures in place.

#### Process management

Assessing the production processes management and traceability. The verified requirements measure the correct functioning of the internal traceability system and its digitalization. Morover it includes processe due-diligence tests in order to monitor contamination on the products.

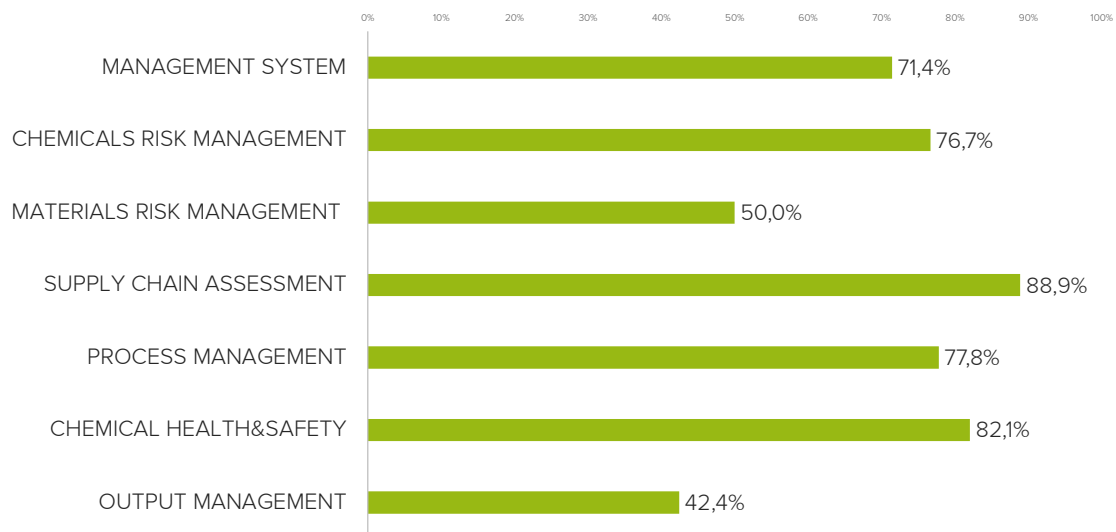
#### Chemical Health&Safety

Assessing health and safety requirement linked to chemical management. The verified requirements range from labeling, handling and storage of chemical products within the factory, to emergency procedure and waste management.

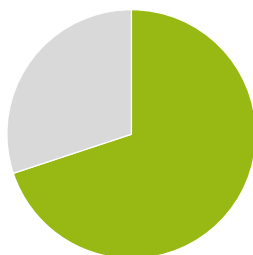
#### Output Management

Evaluating the company management of process output. The verified requirements range from legal permission for emission to the control of waste water according to ZDHC Guidelines. for internal and external processes and final product testing.

### 4S REQUIREMENT - LEVEL OF IMPLEMENTATION



### AUDIT RATING



70%

### AUDIT DATE

16/12/2021

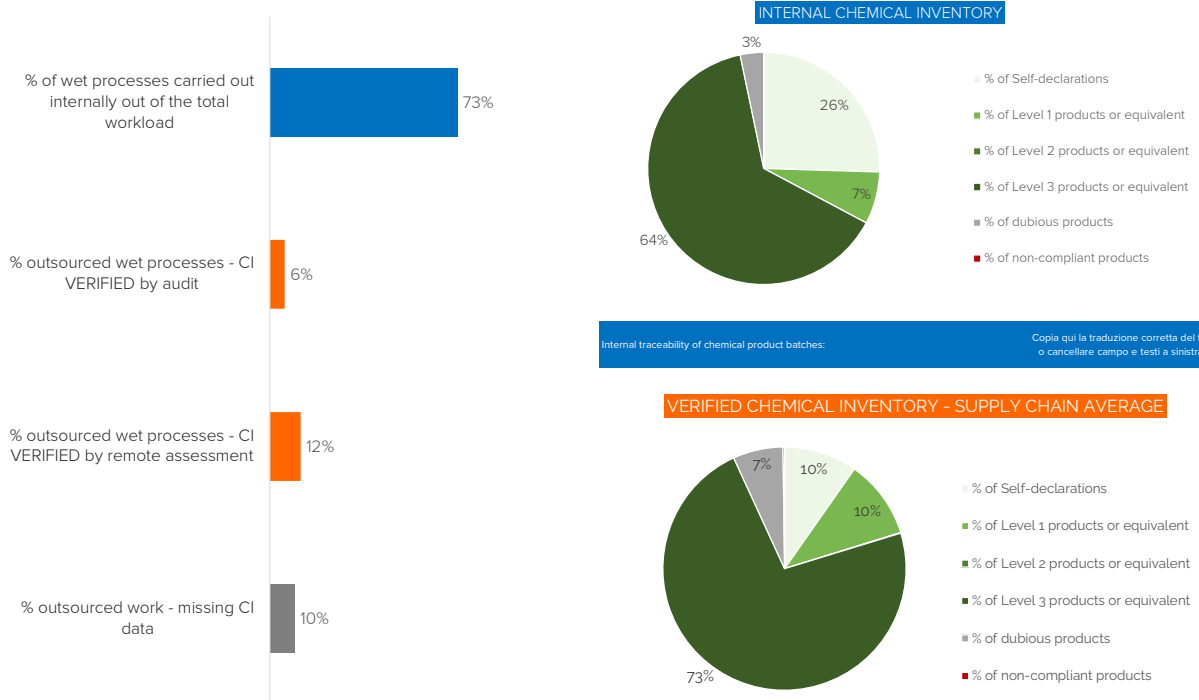
## PRODUCTION MODEL

The company manufacture and sells fabric and garments.  
The company carries out internal processes of spinning, warping, weaving, dyeing, finishing and mending.  
The company outsources processes of dyeing, finishing and printing.

Name of Internal Chemical Manager: Stefano Brown  
ZDHC accredited training course and date: -

### INPUT

#### CHEMICALS

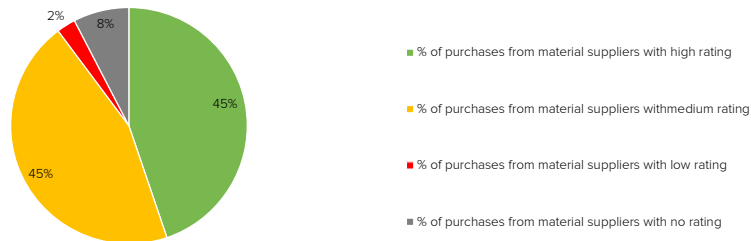


The production coverage is calculated from the meters of textile wet processed by the subcontractors.

TOT n. of verified chemical inventory: 17

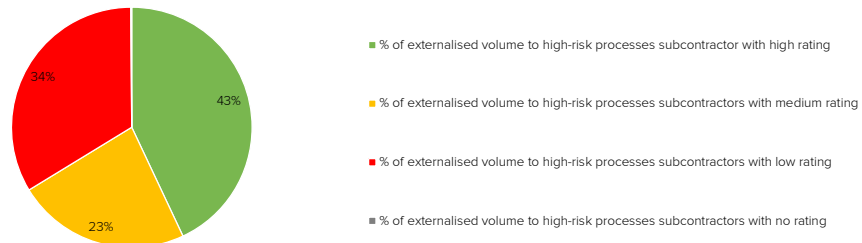
#### RAW MATERIALS

#### RAW MATERIALS SUPPLIERS RATING



## PROCESS

#### CHEMICAL HIGH-RISK EXTERNAL PROCESSES SUBCONTRACTORS RATING



## OUTPUT

### INTERNAL WASTEWATER

The company didn't the Wastewater analysis according to the ZDHC Wastewater Guidelines yet

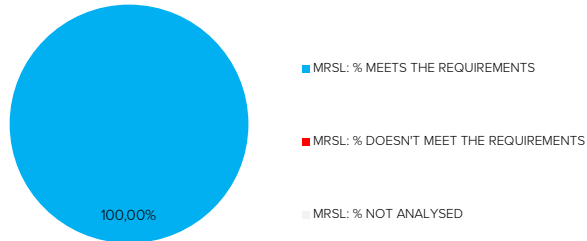
### EXTERNAL WASTEWATER

#### SUBCONTRACTOR 1

% OF EXTERNALISED PROCESSES: **3,16%**

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

#### MRSL Parameters

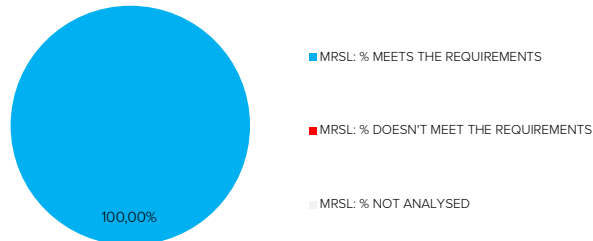


#### SUBCONTRACTOR 2

% OF EXTERNALISED PROCESSES: **2,54%**

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

#### MRSL Parameters

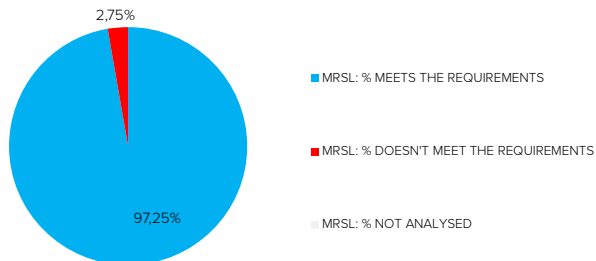


#### SUBCONTRACTOR 3

% OF EXTERNALISED PROCESSES: **0,59%**

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

#### MRSL Parameters



#### SUBCONTRACTOR 4

% OF EXTERNALISED PROCESSES: **0,26%**

CETP (Central Effluent Treatment Plant) - PRE TREATMENT MONITORING (Raw waste water)

#### MRSL Parameters

