THE LIFE & END LIFE OF TEXTILES

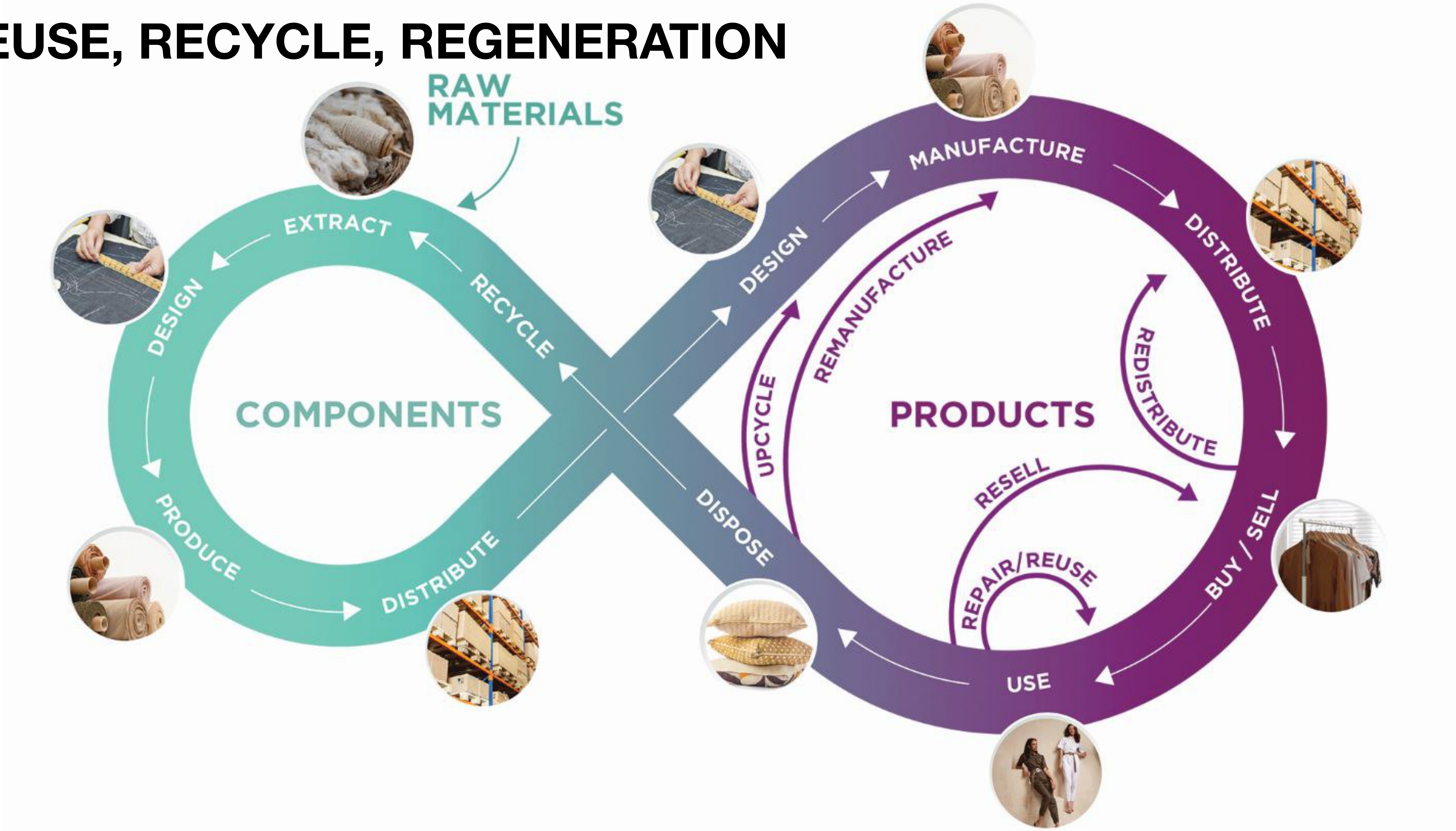
…."How fast fashion fuels climate change, plastic pollution, and violence"
The GREENPEACE Report
22 09 2023

Photo:
the Atacame desert - CHILE

GreenEvo

▶ blue economy first

FROM SORTING TO FASHION
By REUSE, RECYCLE, REGENERATION



from TEXTILES to FASHION > FAST FASHION > SUPER FAST FASHION & RETURN

1

BEHIND THE NUMBERS

On textile production cycle
from 1000gr of vergin fiber
when arrive to be a garment already
LOST 30%

VADEMECUM FASHION/TEXILE FOOT PRINT (by Textile exchange* or EU**)	NUMBERS
textile fibers global output	124 billions/KG
*the oil based (synthetic) fibers	57 billions/kg
* cotton fibers (veg)	24.4 billion /kg - 19,7%
*animal fibers (proteic)	1 billion/kg - 0.8%
Artificial &tech fibers (artificial, biobased, glass fiber, high tenacity, etc)	41,6 billion/kg - 33,5%
For single planet inabitant (8,2 billions)	12,2 kg each
**global polluted water for exc.textle industry use	20%
**GHG emissioni for single EU citizen	270 kg
Global waste production/Y	90.000.000.000/kg
**% of Planet GHG produced by Fashion industry	10%
**textile used for single EU citizen/Y	26 kg
**% pre-post consumer textile waste by EU single citizen /Y	11 kg
**% recycled or reused textiles	1%
**% burned or landfilled	87%
POST CONSUMER GARMENT datas	
Re-usable garments according to: textile Recycling int. may 2023	60%
% NON reusable post consumer garments EXPORTED outside EU	>40%
NEW GARMENTS' PLANET IMPACT *textile 2030 EU environment agency" Impronta min/ max/	CO_2/kg
New in the market from min>max = average	13,5>33,9 = 21,46
Single use textiles (wipes)	4.3>4,3 = 4,3

from TEXTILES to FASHION > FAST FASHION > SUPER FAST FASHION & RETURN

2

BEHIND THE NUMBERS

The fashion industry total foot print MUST include
(quite often missed)
the huge quantities of PACKAGING -
specially in fast and super fast fashion market

SECTOR	PET	PLA (biobased & biodegradable	MAN MADE FIBERS
Packaging	32%	70%	
Injection molding	1%	1%	
Agriculture	0%	1%	
Textile & nonwoven	67%	28%	100%

from TEXTILES to FASHION > FASHION > FAST FASHION > SUPER FAST FASHION & RETURN

3

BEHIND THE NUMBERS

To complete GHG calculation of a T-shirt
170 gr made with RPET from bottle (90%)
need to add
the GHG of 1 cycle with GHG of 2 cycle: >1 kg/CO2

GWP (foot print) KG/Co2 - GHG	Kg/Co2 equivalent
VERGIN TEX FIBERS	
Rayon (artificial)	3,81
Tencel (artificial)	1,2
PET (polyester)	2,05>3,3
PLA (ingeo) *	0,5
FROM RECYCLING	+ (to add first cycle)
Pet	1,33>2,21
RPET from bottle	3,08
Biobased PET	1,03
RPLA	1,72

LEGISLATIVE ACT AND OTHER INSTRUMENTS
Subject:
Position of the Council *at first reading* with a view to the adoption of a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL amending Directive 2008/98/EC on waste
– ***Adopted by the Council on 23 June 2025***

ATTO LEGISLATIVO E ALTRI STRUMENTI
Oggetto:
Posizione del Consiglio in prima lettura in vista dell'adozione della DIRETTIVA DEL PARLAMENTO EUROPEO E DEL CONSIGLIO che modifica la direttiva 2008/98/CE relativa ai rifiuti
– Adottata dal Consiglio il 23 giugno 2025

Textile market growing expectation (From international statistic players)

> 28% within 5 Y (average +5,6 Y)

Textile Market Analysis by Mordor Intelligence

The Textile Market is valued at **USD 760.28 billion in 2025** and is projected **to reach USD 974.38 billion by 2030,** advancing at a 5.09% CAGR. Tightening sustainability regulations in Europe, near-shoring strategies such as "China + 1," and expanding demand for high-performance technical fabrics set the growth tone for the global textile market. Polyester recycling lines, the rapid rise of e-commerce brands that want custom designs, and government incentive programs **in India and Vietnam** all reinforce investment momentum. Feedstock cost swings and climate-driven water restrictions on cotton create volatility, yet they also hasten the pivot toward recycled synthetics and new fiber blends. Overall, competitive advantage now hinges on traceability, low-impact production, and the ability to deliver small runs quickly for fast-fashion and direct-to-consumer labels

AI internet forecast:

> 45% within 9 Y (media)

Key Statistics & Forecast - **Market Size:** The global textile market was estimated at **USD 111 billion in 2024** and is projected to reach **USD 161 billion by 2033** CAGR: The market is expected to grow at a Compound Annual Growth Rate (CAGR) of 4.2% from 2025 to 2033.

Regional Dominance: Asia-Pacific holds the largest market share, with China as the leading producer.

Key Trends **Sustainability:** G***rowing regulatory pressure, including the EU's*** Extended Producer Responsibility schemes, is driving demand for durable, recyclable products and traceability systems.

…………..

Top Importers (2023): The United States, Germany, and France were the top textile importers.

EU: Counsil directive…..The food and textile sectors are respectively the 1st and 4th most resource-intensive sectors

Statista. Com

> 4,73% Y

Revenue in the Fashion Market is projected to reach US$920 bn in 2025.

Revenue is expected to show an annual growth rate (CAGR 2025-2030) of 4.73%, resulting in a projected market volume of US$1.16tn by 2030.

With a projected market volume of US$228.86bn in 2025, **most revenue is generated United States.**

In the Fashion Market, **the number of users is expected to amount to 2.2bn** users by 2030.

User penetration will be 27.7% in 2025 and is expected to hit 30.6% by 2030.

The average revenue per user (ARPU) is expected to amount to US$555.09.

PLANET POPULATION GROWING:
5Y till 2030:
Within 20230 up to > 8.500.000.000
= >+5,9%

EU Commission Direttive
n. 6978/2/25
REV 2
EU
June 25 2025

In the context of this amending Directive, **'used textiles' should be understood** as

6978/2/25
Pag 22 REV 2…….**USED textiles collected separately should be considered WASTE at the time of collection,
unless they are DELIVERED DIRECTLY
by the end user and directly and professionally assessed as suitable for reuse at the time of collection.**

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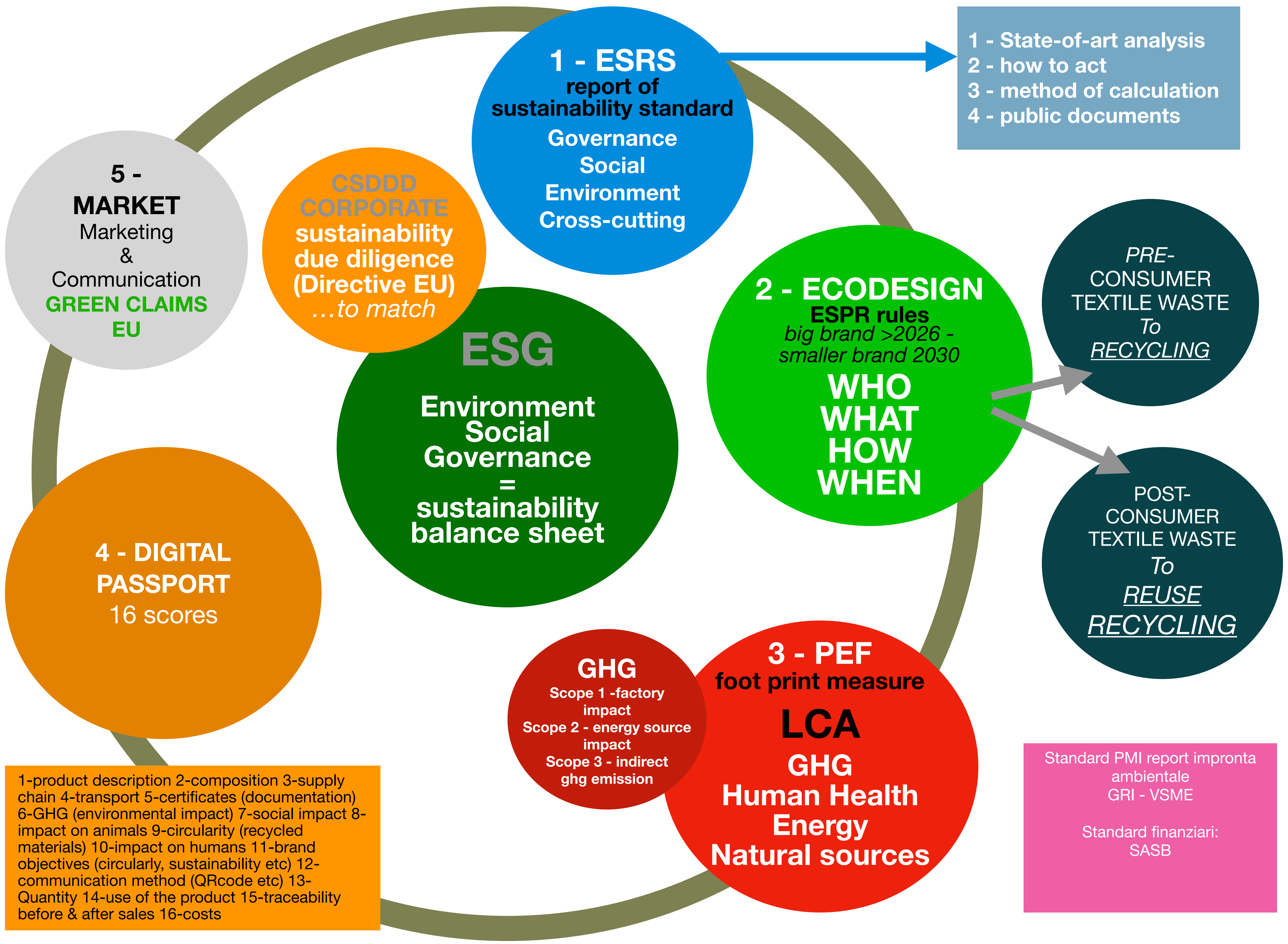
According to the Commission communication of 9 December 2021 entitled
"Building an ECONOMY that works for the people": an action plan for the SOCIAL ECONOMY:
……

The three fundamental principles of the social economy include:
(1) the primacy of people and social or environmental purpose over profit;
(2) the reinvestment of all or most profits and surpluses to further pursue social or environmental purposes and carry out activities in the interest of its members/ users or society at large;
(3) democratic or participatory governance.

EU - CSRD corporate sustainability reporting directive > 5/01/2023



…The rules on **extended producer responsibility** established by Directive 2008/98/EC should therefore apply to extended producer responsibility schemes for **producers of textiles, related textile products, or footwear.**

However, these rules should be complemented by additional specific provisions relevant to the characteristics of the textile sector, in particular the high share of small and medium-sized enterprises (SMEs) among producers, the role of social economy entities, and the importance of reuse in increasing the sustainability of the textile value chain.

P-25 LEGISLATIVE ACT AND OTHER INSTRUMENTS

In Italy, there are nearly 66,000 companies in the fashion industry and over 13,000 in the textile sector (according to ATECO 13 classifications), with the number varying depending on the source and year.
The textile-clothing sector is the third-largest manufacturing sector in the country in terms of number of companies and employees .