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good ethics good business

# GLOBAL PROJECTS FOR CHEMICAL MANAGEMENT

## The ZDHC (Zero Discharge of Hazardous Chemicals) Model

Giuditta Passini, 11 June 2018





Process Factory is a company specialized in providing businesses with integrated solutions to improve their performances in terms of organization, efficiency and sustainability.



4sustainability is the first Italian provider working with fashion brands and the supply chain for sustainable development.



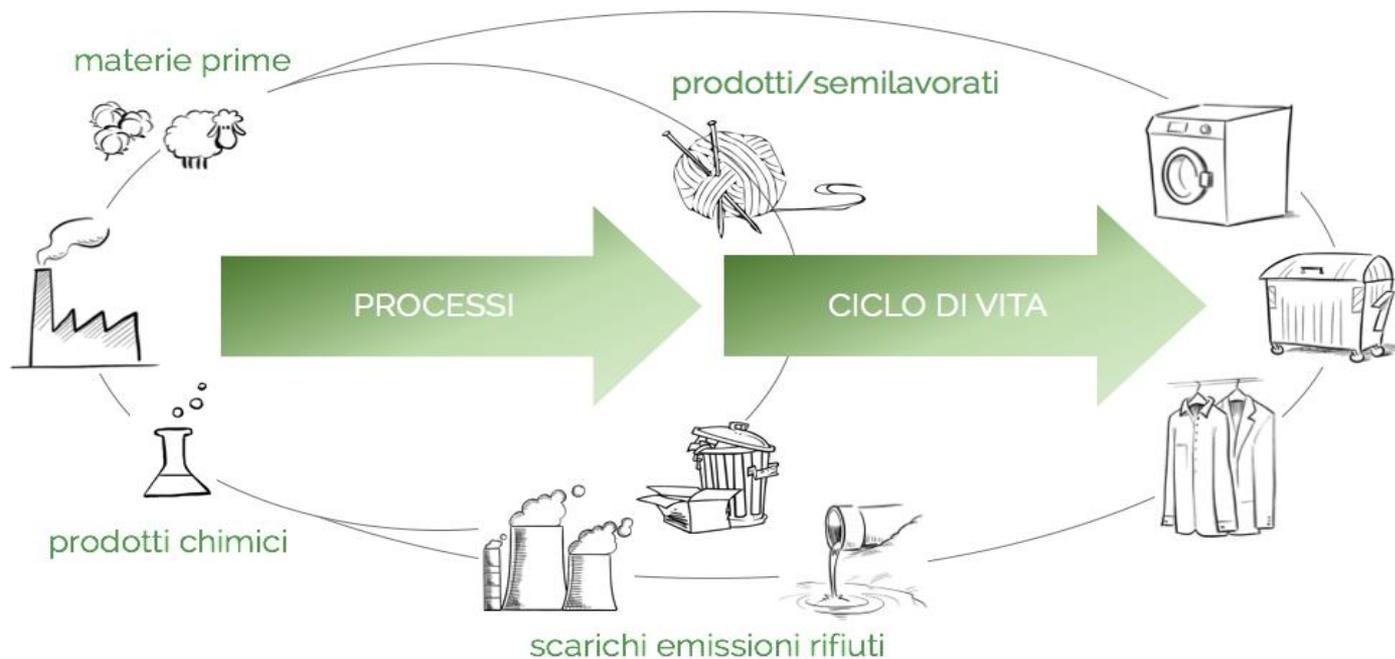
# 2030 AGENDA AS A GUIDE



# CHEMICAL MANAGEMENT: WHO IS MOVING IN THIS DIRECTION?



# CHEMICAL MANAGEMENT SYSTEM



ACT ON **INPUT** AND **PROCESS** TO REDUCE THE RISKS ON THE **OUTPUT**





### Detox My Fashion

Since 2011 the Detox campaign has challenged some popular clothing brands to eliminate all releases of chemicals.

Thanks to the action of over half a million designers, bloggers, fashion fans and activists, twenty global fashion leaders, from adidas to Zara, have made

<b>DETOX LEADERS</b>			BURBERRY		ESPRIT		H&M		INDITEX		Limited Brands
<b>GREENWASHERS</b>											
<b>DETOX LOSERS</b>			DIESEL	D&G		GAP		LVMH	Metersbonwe		PVH



FROM  
PRODUCT  
COMPLIANCE

**PRSL**



TO PROCESS  
MANAGEMENT

**MRSL**

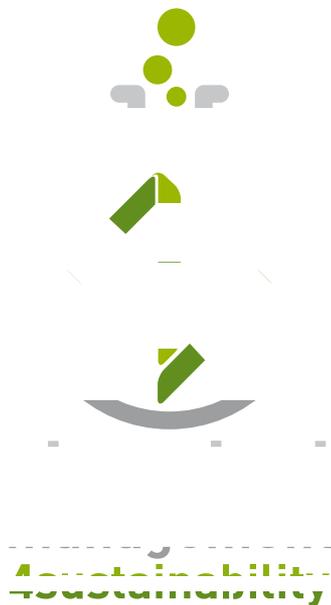
TO PROTECT PEOPLE AND ENVIRONMENT



- ✓ a management system ensuring compliance with the **main market goals**
- ✓ a **global approach** recognized by the major international brands
- ✓ a **homogeneous and shared approach** for the global fashion industry, from raw materials to finished products
- ✓ a system based on processes and data management built to demonstrate **continuous improvement**



## 4S CHEMICAL MANAGEMENT PROTOCOL

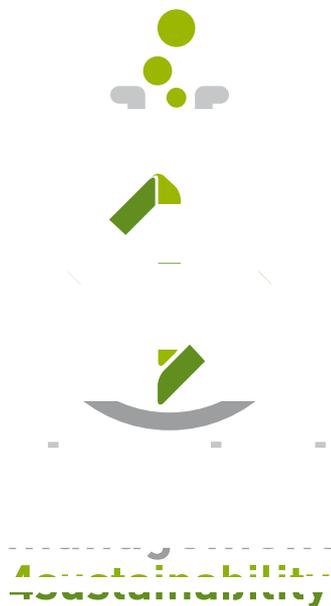


Following the **ZDHC** approach, 4S Protocol for chemical management is based on the brands requirements for the supply chain, as well as on the analysis of the related verification methods.

The result is a match between demand and response capacity oriented to the **gradual** achievement of shared goals.



## 4S CHEMICAL MANAGEMENT PROTOCOL

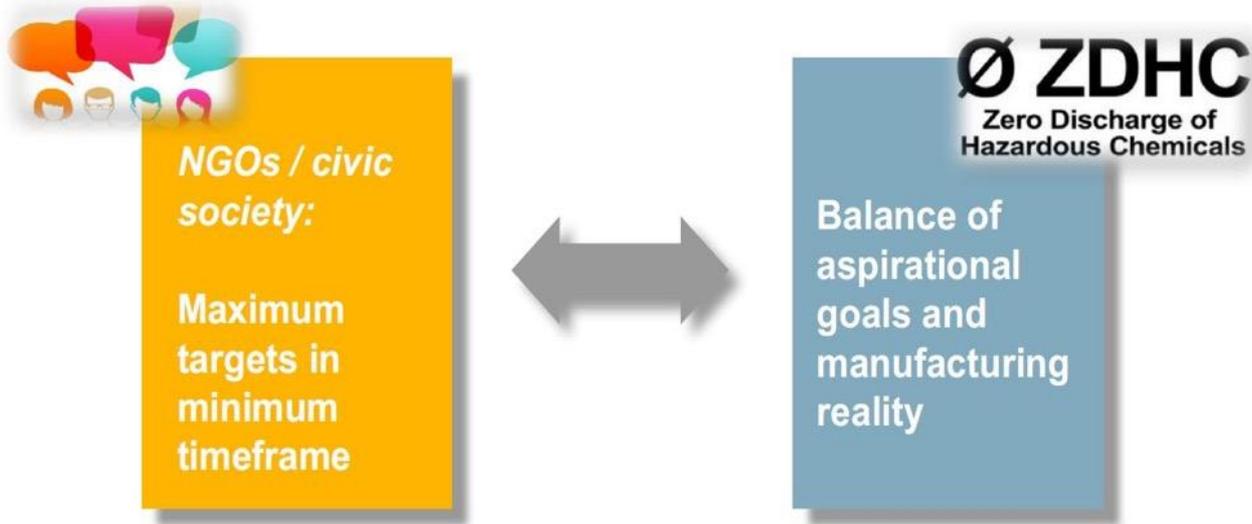


- ✓ definition of roles and responsibilities
- ✓ mapping and qualification of the supply chain
- ✓ chemical inventory
- ✓ risk analysis of chemicals
- ✓ storage management and handling of chemicals
- ✓ identification and traceability of production
- ✓ control plan on raw and semi-finished materials
- ✓ inspection plan on discharges and chemicals
- ✓ laboratories qualification
- ✓ involvement, training and monitoring of subcontractors
- ✓ training of internal staff
- ✓ non-compliance management
- ✓ reporting



## ZDHC AS IMPLEMENTATION TOOL OF **DETOX** GOALS

### Taking a pragmatic approach to an industry challenge



# A GLOBAL SUPPLY CHAIN APPROACH

## Signatory Brands:



## Value Chain Affiliates:



## Associates:



# ZDHC FOUNDATION PROGRAMME, ACADEMY, HUB

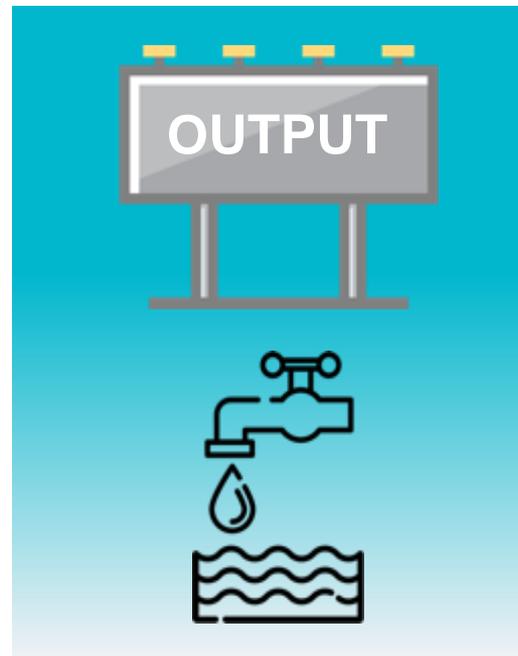
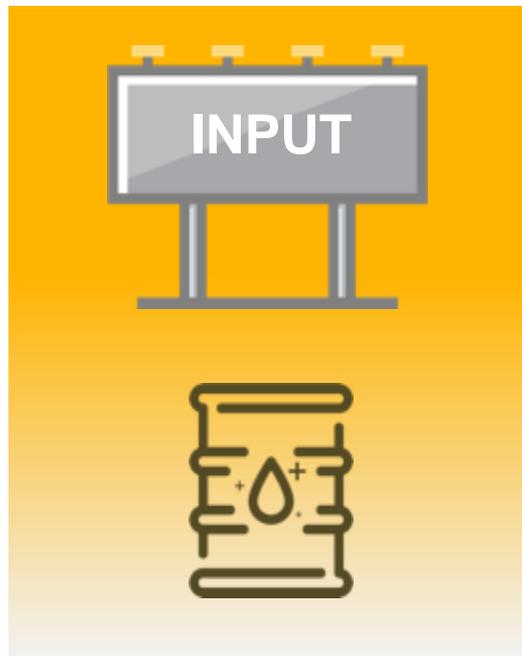
## The Roadmap to Zero Programme



## The ZDHC Implementation HUB



# A HOLISTIC APPROACH TO SUSTAINABLE CHEMICAL MANAGEMENT



## INPUT MANAGEMENT



ZDHC MRSL



ZDHC MRSL Conformance Guidance



ZDHC Gateway - Chemical Module

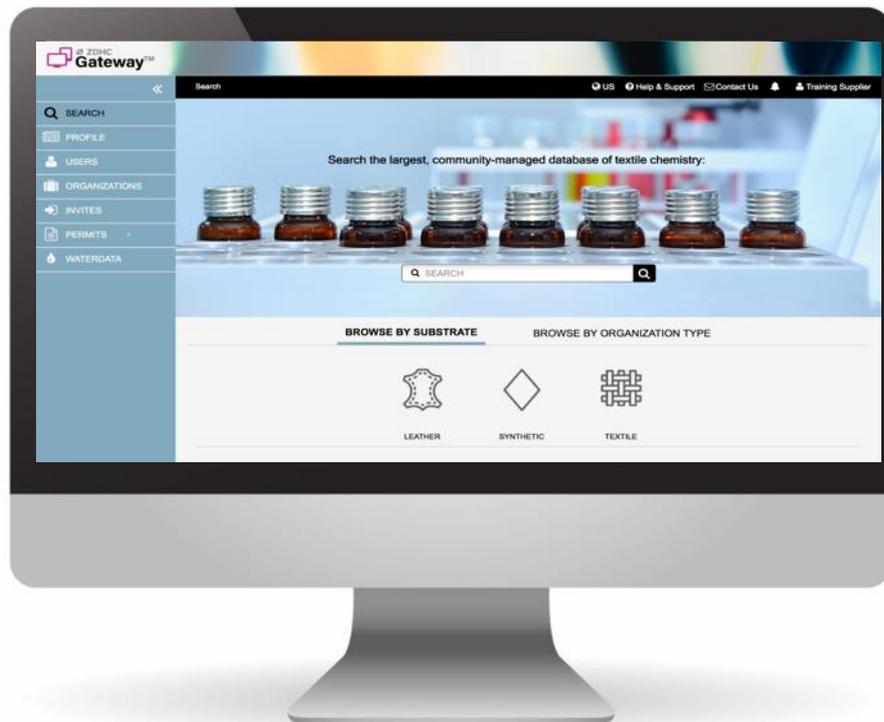


ZDHC ChemCheck™



ZDHC InCheck™





## ZDHC GATEWAY CHEMICAL MODULE

THE world's largest  
database of safer and  
innovative chemistry for  
the leather, textile,  
apparel and footwear  
industry



# QUALIFICATION OF CHEMICALS TRANSPARENCY

464\*

Formulator  
Accounts



\*Active/Enrolled/Pending

23

ZDHC Brand  
Accounts



1,450\*

Supplier  
Accounts



\*Active/Enrolled/Pending

11,076

Active  
Products



Update 28/05/2018



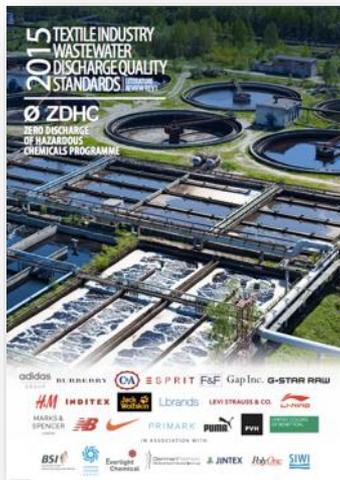
# QUALIFICATION OF CHEMICALS CONFORMANCE LEVELS



## ZDHC ACCEPTED 3° PARTIES CERTIFICATION STANDARD

- BLC Chem-MAP as Level 1 and 3 indicator
- bluesign® bluefinder as Level 3 indicator
- Clean Production Action's (CPA) GreenScreen Certified™ Standard for Textile Chemicals as Level 1 indicator
- Control Union as Level 1, 2 and 3 indicator
- ECO PASSPORT by OEKO-TEX® Programme as Level 1 and 3 indicator
- Global Organic Textile Standard (GOTS) as Level 1 indicator
- NimkarTek Detox Laboratory (NDL) as Level 1 indicator
- NSF International as Level 1 indicator
- SciveraLENS® as Level 1 indicator
- ToxServices' Full Materials Disclosure Screened Chemistry™ (ToxFMD®) Program as Level 1 indicator





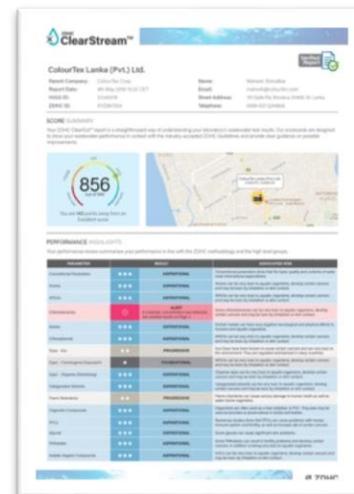
Wastewater standards literature review



Wastewater Guidelines



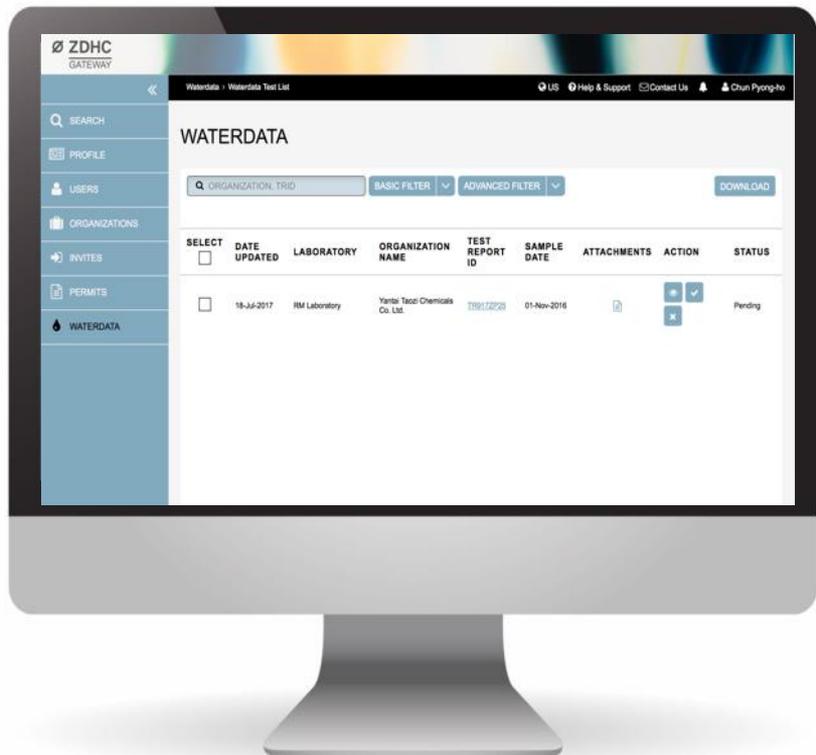
ZDHC Gateway Wastewater Module



Ø ZDHC ClearStream™



# ZDHC GATEWAY WASTEWATER MODULE



THE global online platform to register and share verified Wastewater test data against the ZDHC Wastewater Guidelines.



# WASTEWATER TRANSPARENCY

**1,278**  
Test Reports



960 Visible by Brands

**67**  
ZDHC Accepted  
Labs



In 23 countries

Update 28/05/2018





[www.4sustainability.it](http://www.4sustainability.it)



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