



SWEDEN TEXTILE WATER INITIATIVE

Ø ZDHC

Scalability and collaboration in water intensive industries to achieve SDGs: Examples from the Textile Sector

A panel discussion with leading industry representatives and stakeholders will address issues of governance, scalability and collaborative models, and provide positive examples of sustainable approaches for the sector to contribute to the SDGs.



Agenda

- Presentation of STWI and ZDHC
- Panel Discussion I - Practical experiences from the supply chain
- Panel Discussion II - The role of policy, regulation and financing
- Concluding remarks

PPDP delivering on SDGs

Katarina Veem

Director, Swedish Water House and International Policy

**SWEDEN
TEXTILE
WATER
INITIATIVE**

HEMTEX



RNB RETAIL AND BRANDS
POLARIS O. PYRET | INTERO



INTERSPORT
SPORT TO YOUR MIND



BJÖRN BORG

gina tricot

INDISKA

NILSON GROUP



stadium

ellos



KappAhl

Gekås
Ullared

MQ

ÅHLÉNS

DIDRIKSONS 1913
Grundarens ÅRLÖSEN

LINDEX

Acne Studios



Filippa K



VARNER

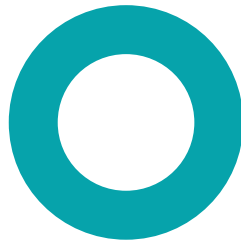
BESTSELLER

SWEDEN
TEXTILE
WATER
INITIATIVE

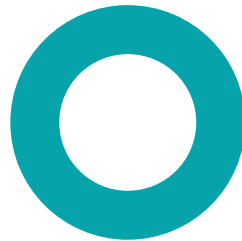


SWEDEN TEXTILE WATER INITIATIVE

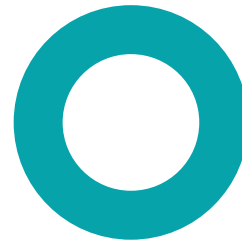
2010
Establishing
STWI Network



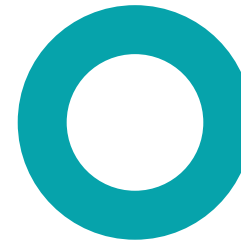
2011
STWI Guidelines
for textile and
leather



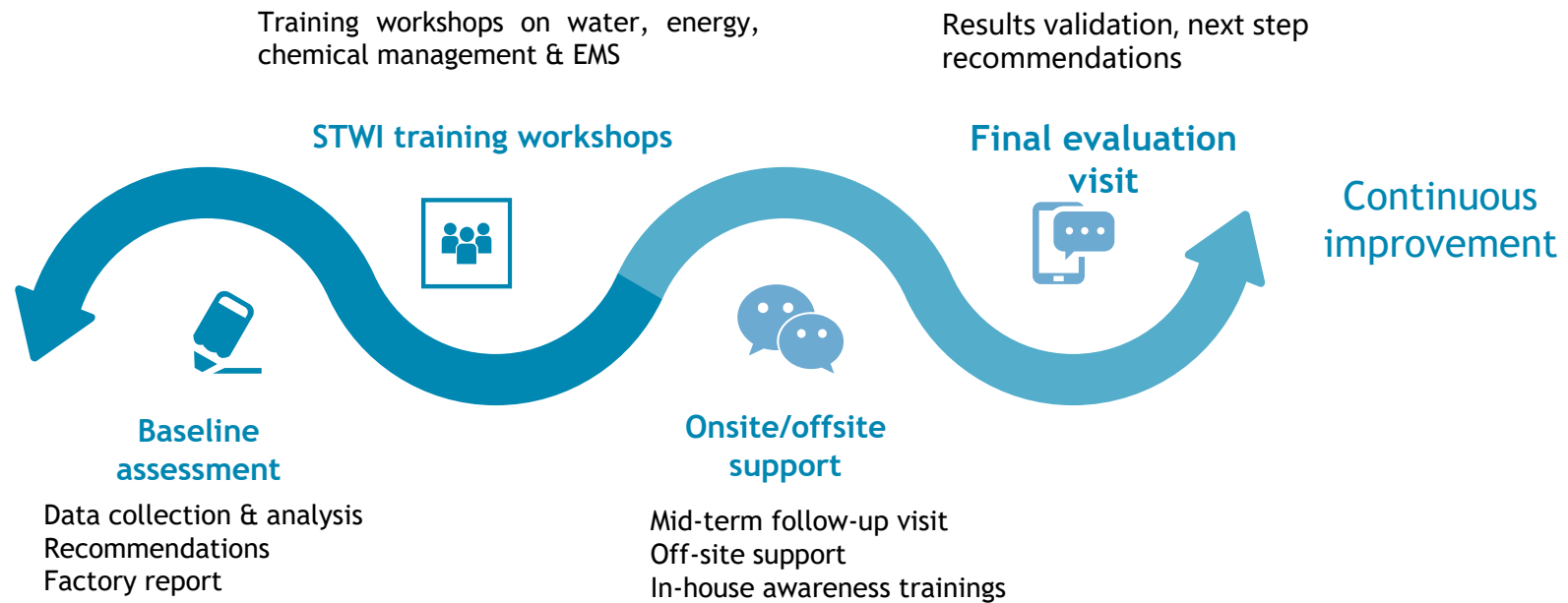
2012
Pilot in India



2014-2017
Global program in India,
China, Bangladesh,
Turkey and Ethiopia



STWI program cycle



How: Improvement of environmental performance



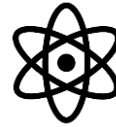
Build factory capacity on **WHY** they should change



Collect, analyze, benchmark and report **performance data** for factories, brands, countries, and globally.



Build factory capacity on **HOW** they could change



Onsite support on environmental change management: water and waste water, energy, chemicals, solid waste, GHG emissions, productivity... etc



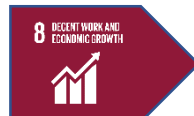



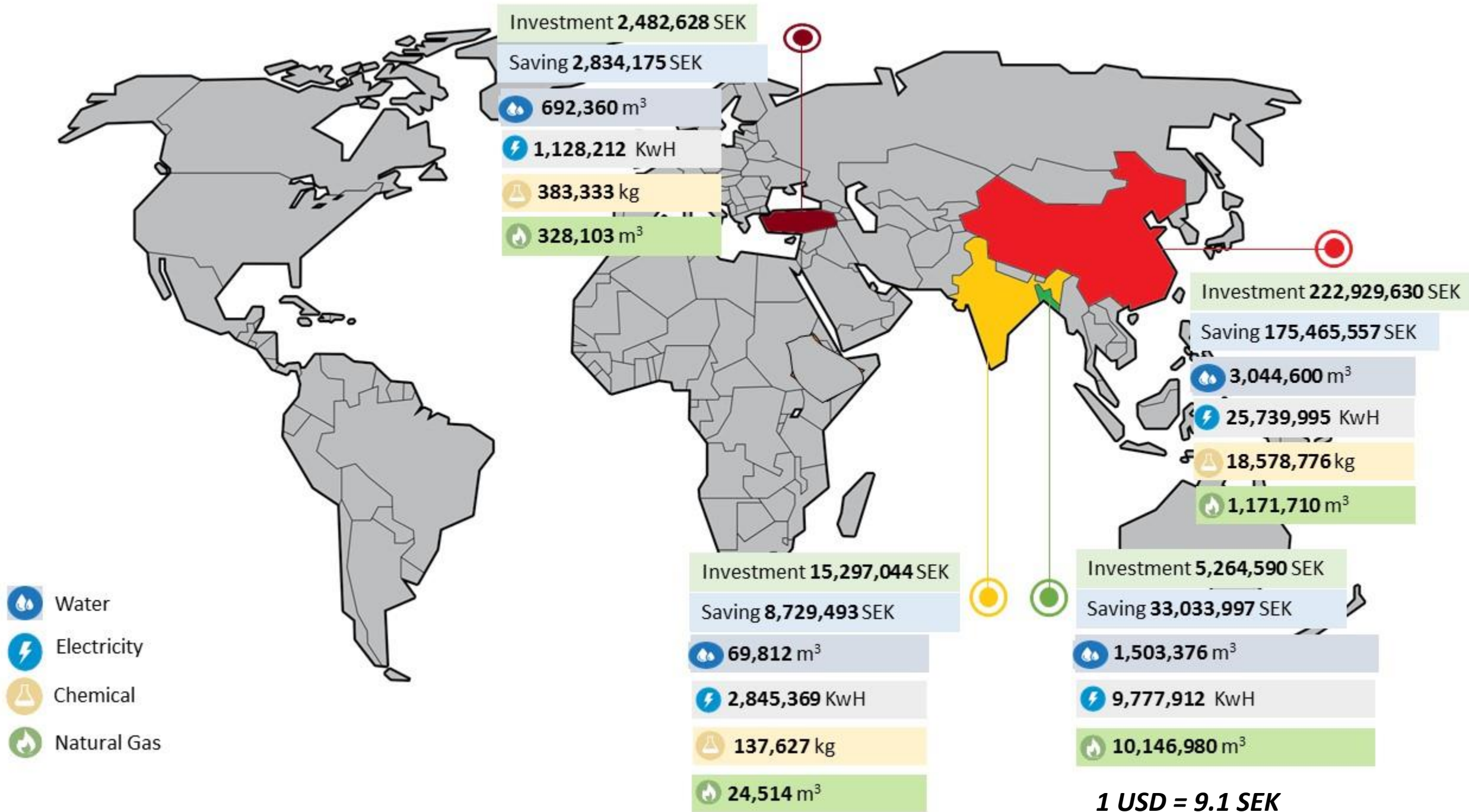
Provide onsite awareness trainings (management and on the factory floor to workers) and **technical support**




Data sets: Higg, ZDHC, STWI Best management Practices, Productivity KPIs, Resource Consumption, water circularity, financial metrics (Cost-savings, ROI, etc.)

STWI results 2016 and 2017

	2016	2017
	<ul style="list-style-type: none"> • 3.35 Million Cubic Meters water saved annually • Daily need for 67M people • Annual need for 183,000 people • 6 % reduction of total water use in production process 	<ul style="list-style-type: none"> • 5.2 Million Cubic Meters water saved annually • Daily need for 104M people • Annual need for 285,000 people • 11.5 % reduction of total water use in production process
	<ul style="list-style-type: none"> • Electricity use reduced by 28M kWh (2.8 %) • Energy use per kg textile reduced by 24.11 MJ/kg (15 %) • Thermal use reduced by 554,000 GJ (7%) 	<ul style="list-style-type: none"> • Electricity use reduced by 39M kWh (10.1 %) • Natural gas use reduced by 11.6M m3 (12.3 %) • Fossil fuel use reduced by 40,400 tons (3.3 %) • Green house gas emissions reduced by 209,400 tons
	<ul style="list-style-type: none"> • 15,930 workers trained • 176 management executives trained • 163M SEK long term investments by factories • Estimated 240 % ROI in 3 years • 88.9M SEK saved by factories in operational costs 	<ul style="list-style-type: none"> • >9,300 workers trained • 530 management executives trained • 246M SEK long term investments by factories • Average ROI 15-18 months • 220M SEK saved by factories in operational costs
	<ul style="list-style-type: none"> • Chemical use reduced by 5,200 tons (3.4 %) • 68 % factories installed resource monitoring systems • 77 % improvement in legal compliance 	<ul style="list-style-type: none"> • Chemical use reduced by 18,700 tons (11.8 %) • 650 projects completed • 100 % factory improvement of Best Management Practices related to Environmental Management
	<ul style="list-style-type: none"> • 5 countries covered in STWI • 119 factories • 20 brands with factories in the program • 10 additional brands in learning platform • Partnership from Sida • Partnerships with local stakeholders in all five countries 	<ul style="list-style-type: none"> • 4 countries covered in STWI • 96 factories • 13 brands with factories in the program • 17 additional brands in the STWI network • Partnership with Sida • Partnerships with local stakeholders in all four countries





Collaboration & scalability in the textile sector to achieve SDGs

STWI & ZDHC Showcase
World Water Week

*28th of August 2018
Stockholm*

Ø ZDHC

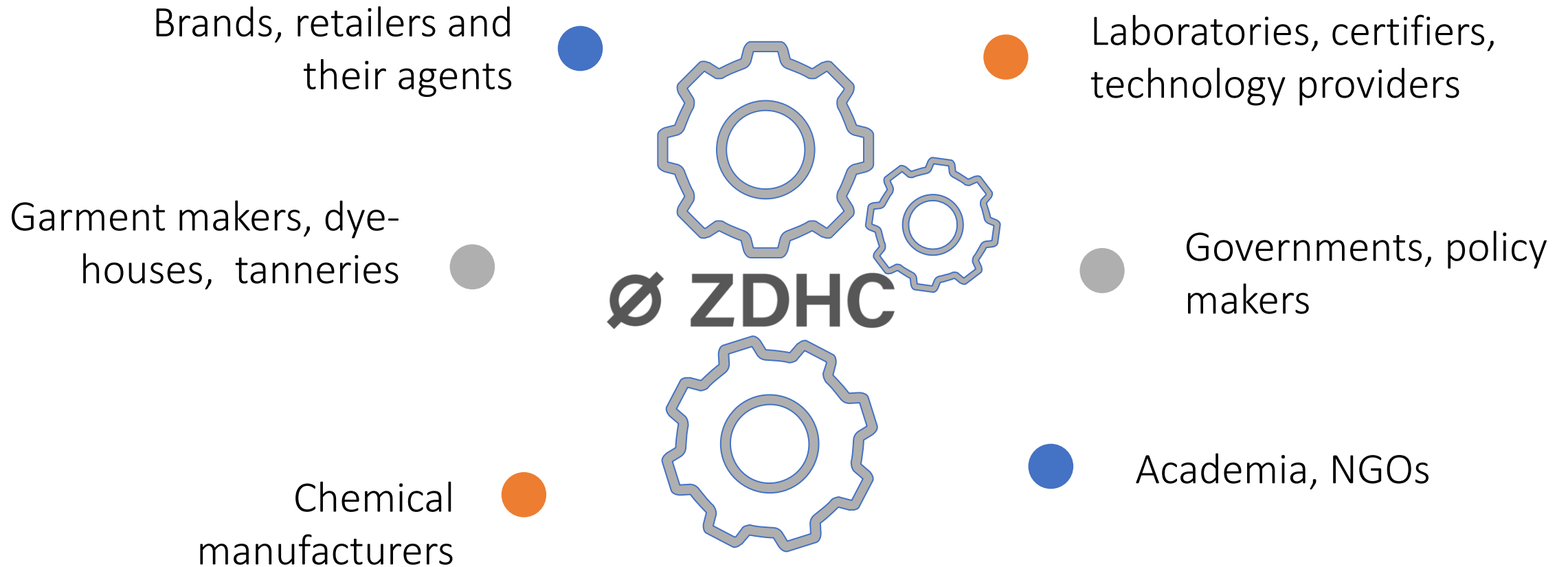
Some challenges
are too big to be
faced alone

Transforming an industry
requires

- Collaboration
- Alignment
- Transparency



A multi-stakeholder collaboration collectively transforming the industry



Signatory Brands:




Value Chain Affiliates:



Associates:



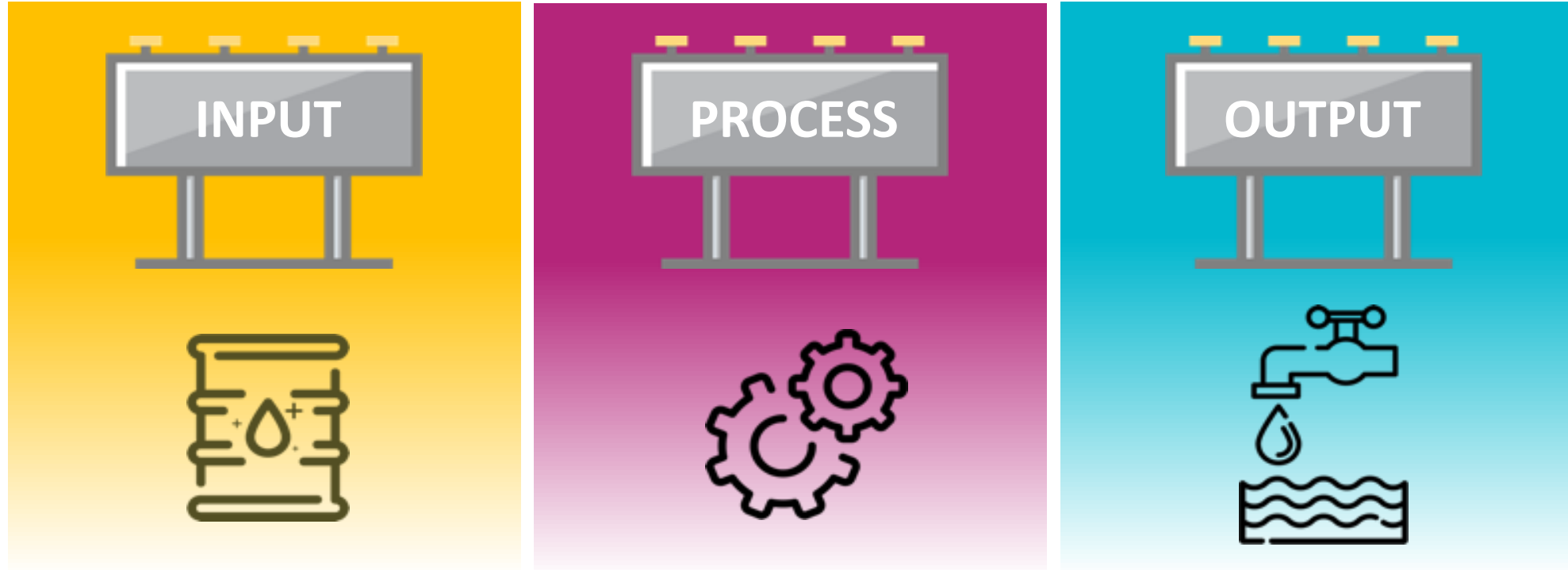
The background of the slide is a microscopic image of plant cells, showing a network of hexagonal and pentagonal structures. The left half of the image is dark, while the right half is light, creating a vertical gradient.

Driving sustainable chemical management best practices in the textile, apparel, footwear, leather value chains through

- **Collaborative engagement**
- **Standard Setting**
- **Implementation**
- **Innovation**

Ø ZDHC

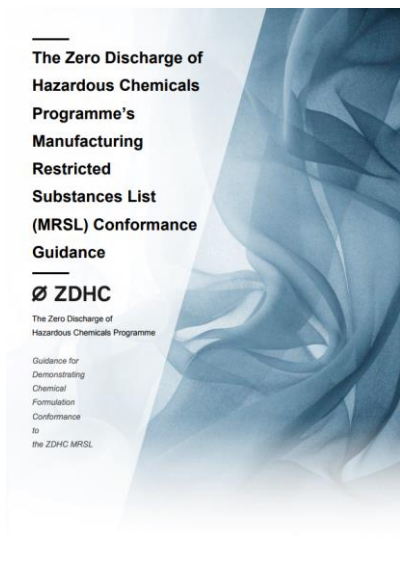
A holistic systems approach to Sustainable Chemical Management



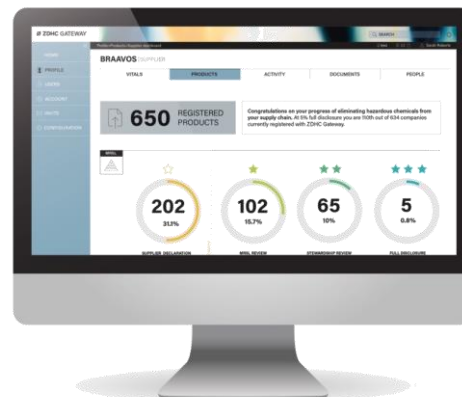
A holistic approach INPUT management



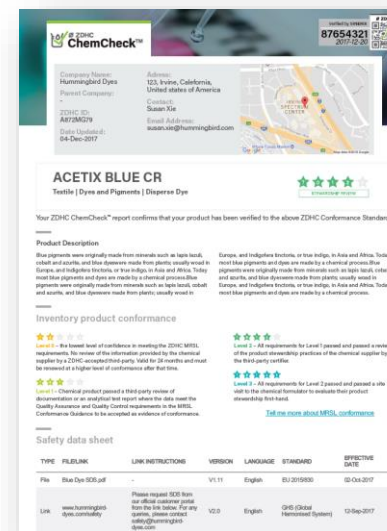
ZDHC MRSL



ZDHC MRSL
Conformance
Guidance



ZDHC Gateway -
Chemical Module



Ø ZDHC
ChemCheck™




Ø ZDHC
InCheck™



Standard for management of input chemistry

ZDHC MRSL / version 2.0 to be released in February 2019



Guidance Section

what?







search

cas-number

search by number

export to PDF

export extended version to PDF



Chapter 1 MRSL for Textiles and Coated Fabrics Processing

Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

Potential Uses in Apparel and Footwear Textile Processing
APEOs can be used as or found in: detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifier/dispersing agents for dyes and prints, impregnating agents, de- gumming for silk production, dyes and pigment preparations, polyester padding and down/feather fillings.

General Techniques for Analysing Chemicals
Liquid chromatography- mass spectrometry (LC-MS), gas chromatography-mass spectrometry (GC-MS)

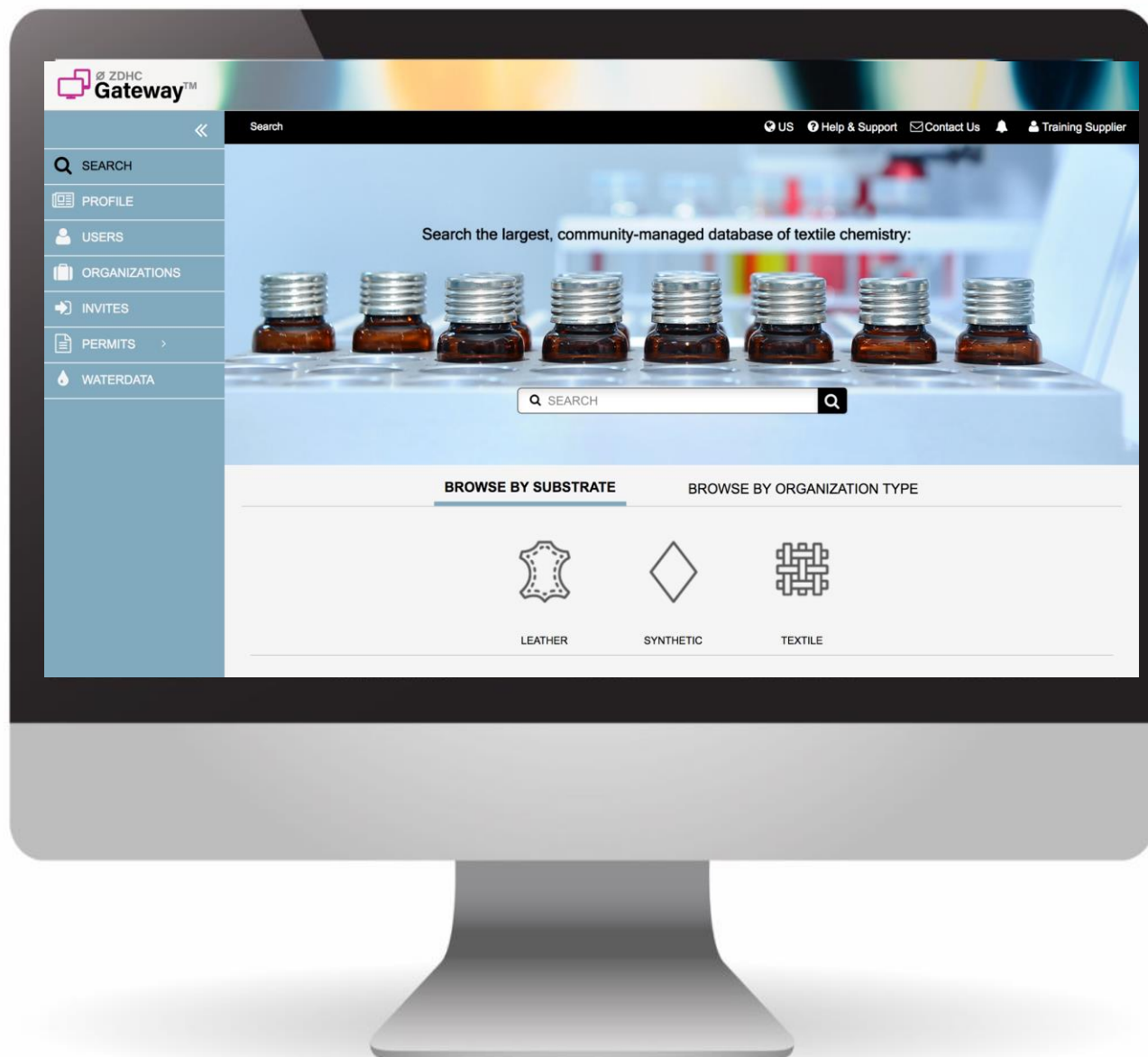
Substance	
Nonylphenol (NP), mixed isomers	Guidance Section
Octylphenol (OP), mixed isomers	Guidance Section
Octylphenol ethoxylates (OPEO)	Guidance Section
Nonylphenol ethoxylates (NPEO)	Guidance Section

Chlorobenzenes and Chlorotoluenes

Potential Uses in Apparel and Footwear Textile Processing
Chlorobenzenes and chlorotoluenes (chlorinated aromatic hydrocarbons) can be used as carriers in the dyeing process of polyester or wool/polyester fibres. They can also be used as solvents.

General Techniques for Analysing Chemicals
GC-MS



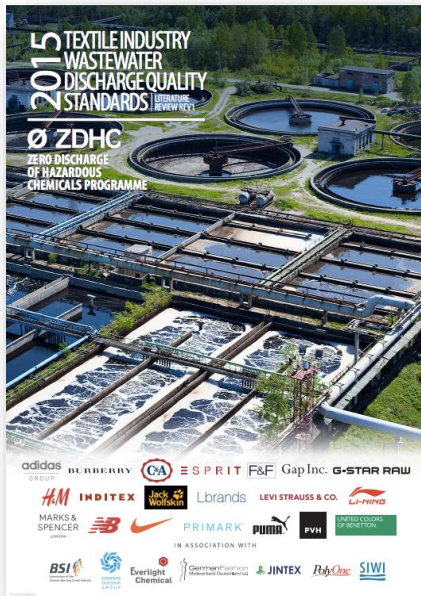


ZDHC Gateway — Chemical Module

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

<https://www.roadmaptozero.com/gateway/chemical-module/>

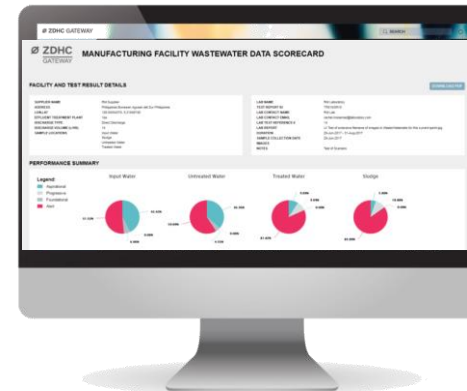
A holistic approach OUTPUT management



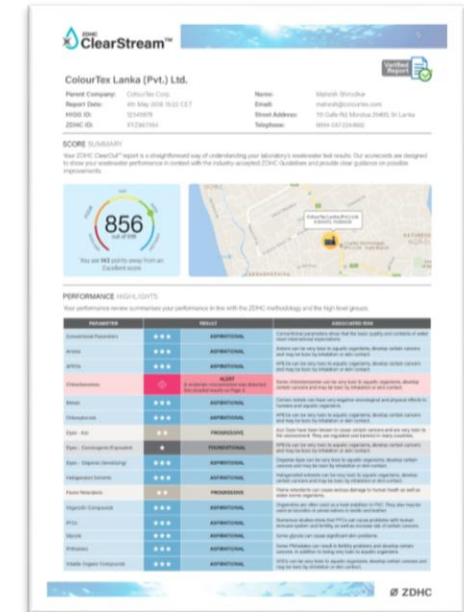
Wastewater
standards
literature review



Wastewater
Guidelines



ZDHC Gateway –
Wastewater Module



Ø ZDHC
ClearStream™

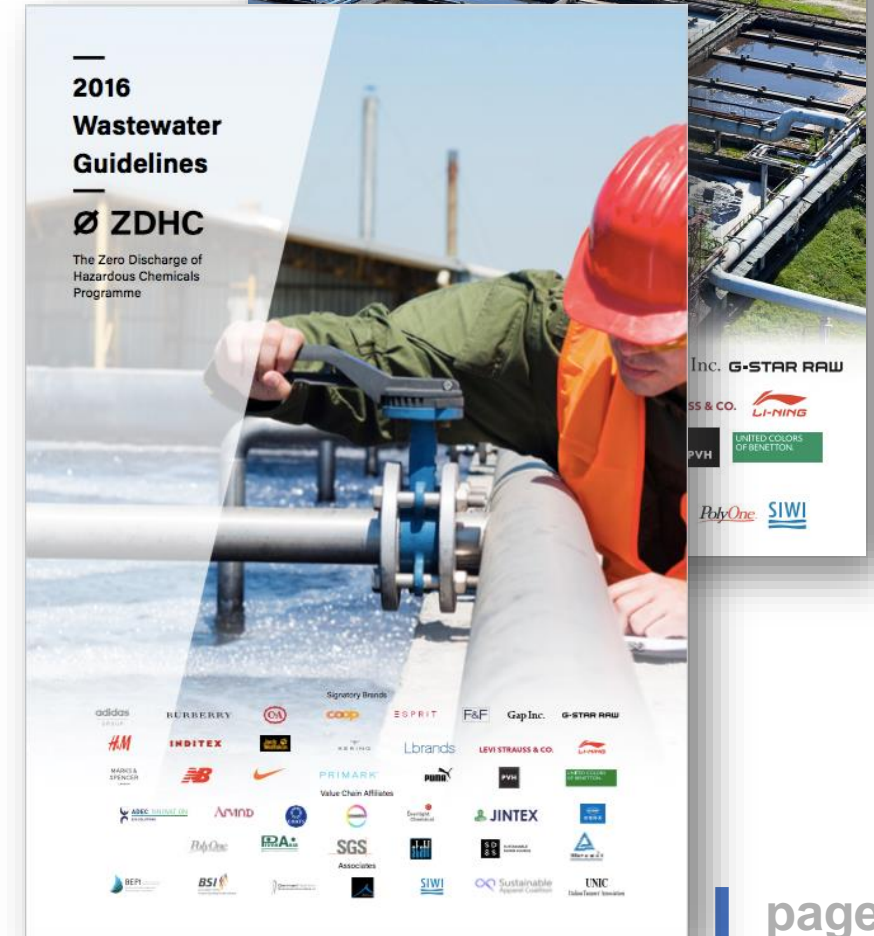
Standard for management of output chemistry

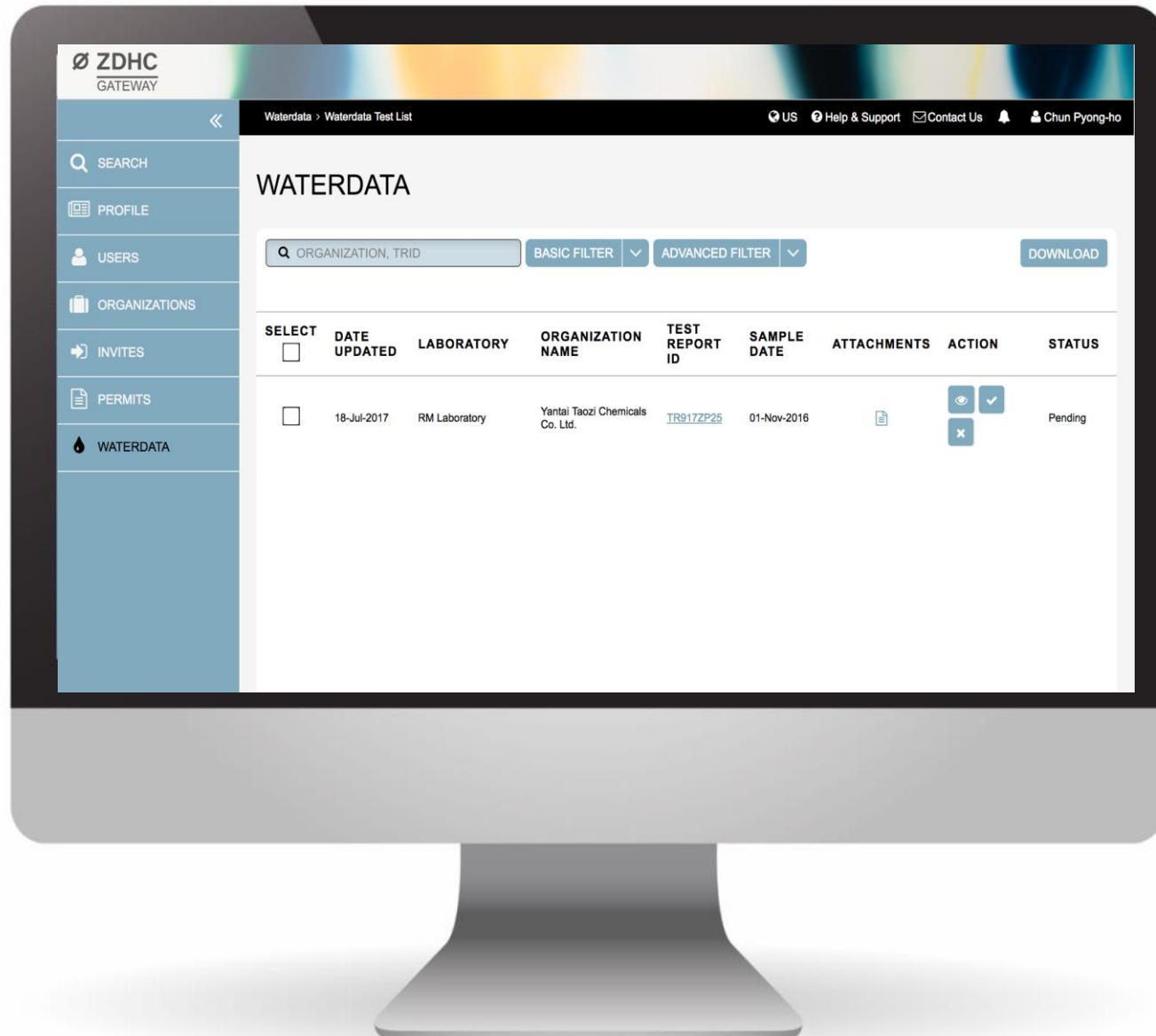
ZDHC Waste Water Guidelines

- Industry alignment for a single, unified set of expectations for wastewater discharge quality
- Beyond current regulatory compliance
- Ensure that wastewater discharges do not adversely affect environment and communities

Two sets of parameters:

- **Conventional Parameters:** Limit values are classified into three levels: Foundational, Progressive, Aspirational
- **ZDHC MRSL Parameters (Priority Hazardous Chemicals):** includes those priority hazardous chemicals defined in the ZDHC MRSL





ZDHC Gateway

Wastewater Module

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

<https://www.roadmaptozero.com/gateway/wastewater-module/>

Wastewater Public Disclosure portal (PDP)

Released in July 1st, 2018

Phase 1

- July 1st 2018

- Anonymous Facilities. Only will show point on map with Green, Orange or Red status.
- Corrective Action Plan - limited to pdf upload by Supplier.
- Limited zoom to country/province level to protect anonymity of the supplier.

Phase 2

- In 2019

- Facility names to be potentially displayed, by facility choice.
- Brand connections

Select your dataset:

☒ ZDHC Verified

☐ Non-Verified


Key:

- Meet Requirements
- Does not meet requirement(s), corrective action(s) taken place
- Does not meet requirement(s)



WHAT DATA ARE WE DISCLOSING?

1. Aggregated data, per facility (from Gateway)
2. IPE Detox data

A close-up photograph of several water droplets of varying sizes on a dark, textured surface. The droplets are in sharp focus, showing their rounded shape and the way they reflect light. The background is a dark, slightly mottled grey.

Scaling the agenda 2030 requires a systemic view on water

- Driving water quality by input chemical management
- Achieving water stewardship by process innovations
- Streamlining the measurement of water output quality



THANK YOU!

**Contact us at
roadmap@zdhc.org**

**Learn more at
www.roadmaptozero.com**

The background of the slide features a close-up, slightly blurred image of numerous colorful water bottles in various colors like blue, green, yellow, and pink. A large, semi-transparent teal rectangle is overlaid on the left and top portions of the image, serving as a background for the text.

Panel Discussion I - Practical experiences from the supply chain

Shariful Hoque, Global Water Lead, H&M

Christina Muljadi, Sourcing Manager, Filippa K

Md. Zahid Ullah, Head of Sustainability, DBL Group, Bangladesh

The background of the slide features a close-up, slightly blurred image of numerous colorful pens or markers in various colors like pink, yellow, blue, and green. A large, solid teal-colored diagonal band runs from the top-left towards the bottom-right, covering the majority of the slide area. The text is white and positioned within this teal band.

Panel Discussion II - The role of policy, regulation and financing

Katarina Sundberg, Swedish Delegation for the 2030 Agenda

Stijn Van Geel, Manager Corporate Partnerships, Solidaridad

Pernilla Halldin, Global Public Affairs, Sustainability, H&M



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