
Annual Report 2018

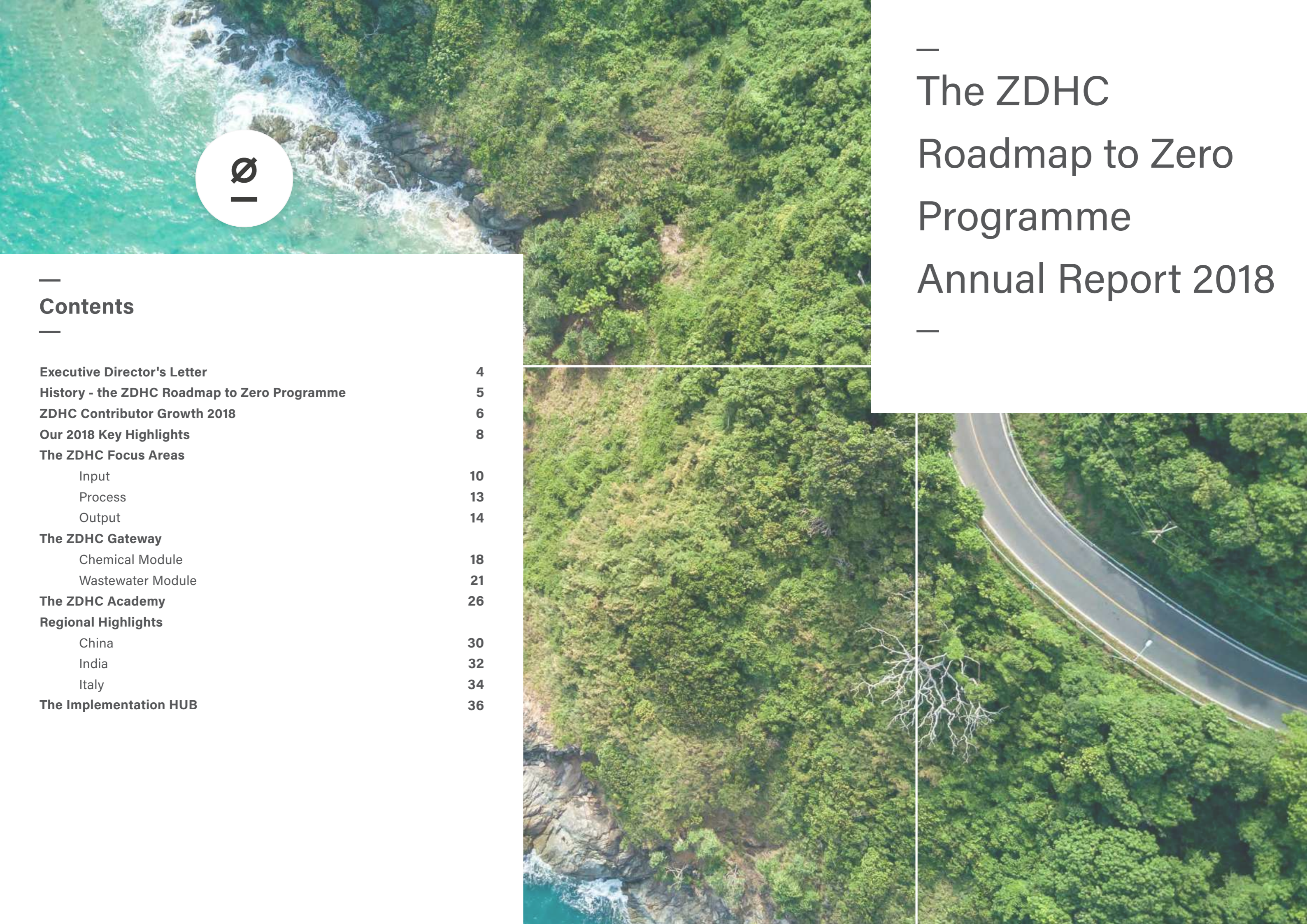
Ø ZDHC
The Roadmap To Zero
Programme



—
Contents
—

Executive Director's Letter	4
History - the ZDHC Roadmap to Zero Programme	5
ZDHC Contributor Growth 2018	6
Our 2018 Key Highlights	8
The ZDHC Focus Areas	
Input	10
Process	13
Output	14
The ZDHC Gateway	
Chemical Module	18
Wastewater Module	21
The ZDHC Academy	26
Regional Highlights	
China	30
India	32
Italy	34
The Implementation HUB	36

—
**The ZDHC
Roadmap to Zero
Programme
Annual Report 2018**
—



Executive Director's Letter

2018 was a collaborative, productive year for our community. It was a time of strong brand engagement and co-development, of new activities, such as the ZDHC Leader Programme for Signatory Brands.

Throughout the year, we worked to enhance our strategic planning and consolidate a new Roadmap to Zero Programme structure. Our global reach expanded and we benefited from the support of new regional Directors in South Asia and Southern Europe.

This groundwork sets the scene to further accelerate and scale global implementation. It places us in an optimal position as the Roadmap 2020 story comes to an end. This report reflects on the achievements of another successful year, and previews the year to come. As we open the door to 2020 and beyond, we will assess our impact after almost a decade. We will outline the shape of our future strategy and put the right support in place to build on our joint collaboratively driven success story.

I cannot overstate my appreciation for the dedicated efforts of each and every member of this incredible community. In 2019, we will stop for a moment to commend your achievements. We will also evaluate the next steps as we continue driving change, throughout the value chain, around the world.



Frank Michel
Executive Director

History - the ZDHC Roadmap to Zero Programme

In 2011, the ZDHC Roadmap to Zero Programme began as a coalition of six brands. Those brands committed to a Joint Roadmap, in which they outlined their future activities.

In 2014, the first ZDHC Manufacturing Restricted Substances List (ZDHC MRSL) was released, along with Chemical Guidance Sheets. The updated December 2015 version included leather and coated fabrics.

In 2015, the ZDHC Joint Roadmap was updated and ZDHC transitioned to management under a legal entity established in the Netherlands – the ZDHC Foundation. The vision of the ZDHC

Foundation is widespread implementation of sustainable chemistry, driving innovations and best practices in the industry to protect consumers, workers and the environment.

Also in 2015, Focus and Cross Cutting Areas were formed to deepen and optimise our impact and complement the work of other industry associations and non-governmental organisations. In 2017, these focus areas were restructured to enable a more holistic approach and tackle all parts of the global textile, leather and footwear value chain.

ZDHC Contributor Growth 2018

In 2018, ZDHC welcomed the following organisations:

Signatory Brands



Value Chain Affiliates

Chemical Industry



Textile Industry



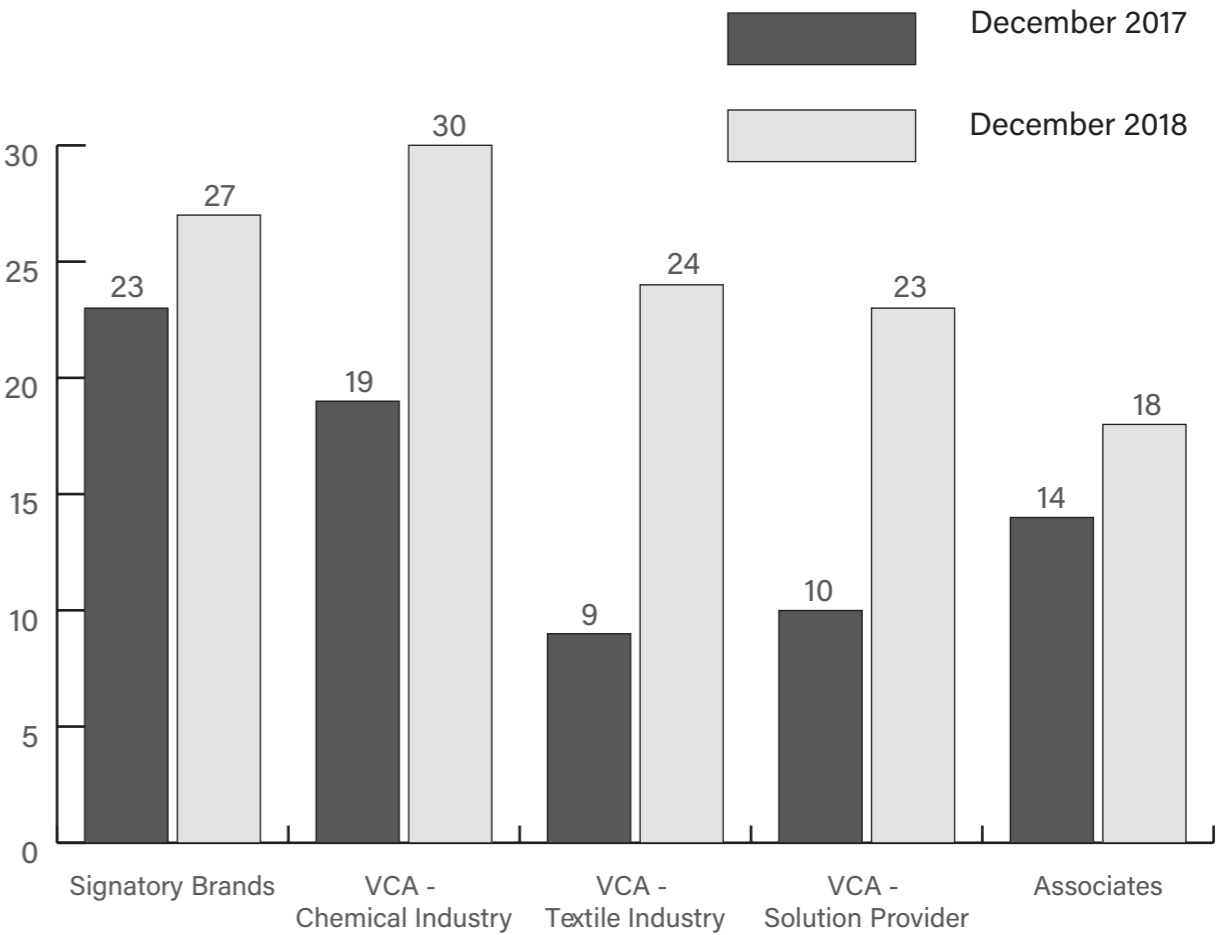
Solution Provider



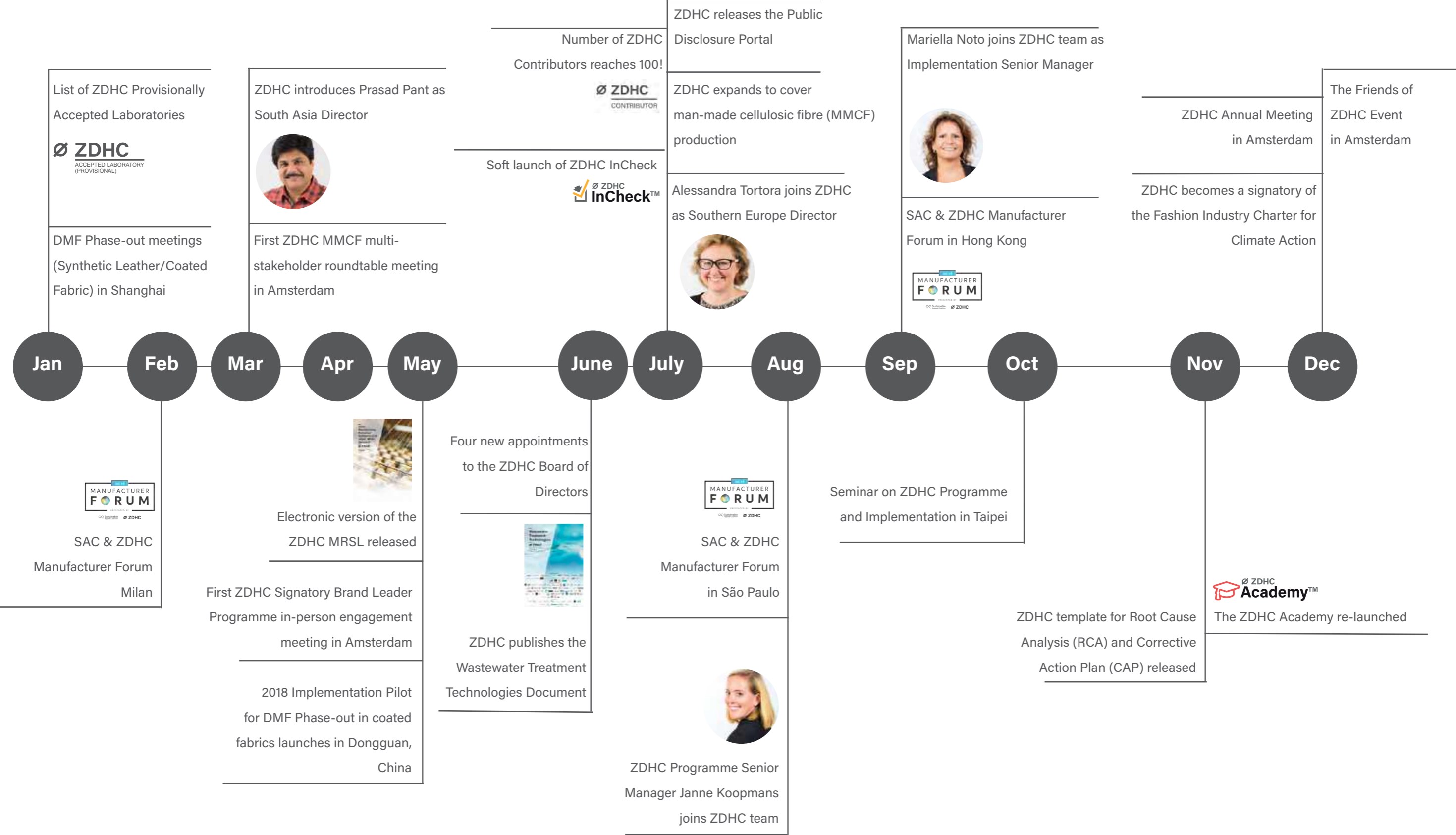
Associates



Contributor Growth



Our 2018 Key Highlights



Focus Area: Input



Overview

The Input Focus Area creates the guidelines and solutions that form the cornerstone of the ZDHC Roadmap to Zero Programme. These are designed to change how products are made by restricting input chemicals rather than trying to eliminate them from effluents and products.

Current and planned ZDHC tools include

- The **ZDHC Manufacturing Restricted Substances List (ZDHC MRSL)** - a list of chemical substances banned from intentional use in facilities that process textile materials, coated fabrics, or leather and trim parts for textiles and footwear.
- **ZDHC MRSL Conformance Guidance** - an indication system that assesses the extent to which a chemical formulation conforms to the ZDHC MRSL.
- **The ZDHC Gateway - Chemical Module** - an easy to use online search tool. It shows chemical buyers in a comprehensive interface, the level to which they can be confident a product conforms to the ZDHC MRSL.
 - **ZDHC ChemCheck** - a verified product passport for chemical formulations
 - **ZDHC InCheck** - a report on ZDHC MRSL conformance of chemical inventory



Achievements 2018



Eight New ZDHC Accepted Indicators for ZDHC MRSL Conformance Added

ZDHC decided at a very early stage not to start its own certification system for ZDHC MRSL conformant chemistry. Instead, ZDHC decided to leverage existing certification standards as indicators of ZDHC MRSL conformance.

Credible third party certification systems are to indicate ZDHC MRSL conformance. An integral part of this system are certificates from ZDHC accepted third parties or acceptable analytical test results.

In 2018 we added 11 new certifiers, bringing the total number to 16.

The new ZDHC Accepted Certification Standards are:

- **Ars Tinctoria S.r.l.** - as Level 1 testing indicator
- **Intertek** - as Level 1 testing indicator for the following locations;
 - Shanghai, Taiwan, Tianjin, Vietnam, Guangzhou, Turkey, Hong Kong, Bangalore and Gurgaon
- **LABOSTUDIO** - as Level 1 testing indicator
- **NimkarTek Detox Laboratory (NDL)** - as Level 1 testing indicator
- **Testtex India Laboratories Private limited** - as Level 1 testing indicator
- **TEXANLAB LABORATORIES PVT. LTD.** - as Level 1 testing indicator
- **TÜV Rheinland** - as Level 1 testing indicator
- **UL** - as Level 1 testing indicator

The current list of ZDHC Accepted Certification Standards can be found [here](#).





Electronic Version of the ZDHC MRSL Was Released to Ease Usability and Drive Implementation



May saw the release of the ZDHC e-MRSL, an electronic version of the ZDHC MRSL. This interactive tool supports the global textile, apparel, leather and footwear industry by improving how chemicals are used throughout the value chain.

Users of the ZDHC e-MRSL can easily search for chemical substances using the name of the substance or the CAS number. Eventually, it will also be possible to filter for different criteria and to translate the tool into multiple languages. The ZDHC MRSL remains available for download as a PDF file.

Access the ZDHC e-MRSL [here](#).

[Read more...](#)

Next Steps

- ▶ Complete the ZDHC MRSL Principles and Procedures (PnP) document in which the processes for updating the ZDHC MRSL will be outlined.
- ▶ Complete the ZDHC MRSL Submission Platform to support the ZDHC MRSL update process. This platform will enable people and organisations to submit their proposed additions and/or amendments to the ZDHC MRSL.
- ▶ The ZDHC MRSL Version 2.0 is expected to be released in 2019.
- ▶ The Chemical Guidance Sheets will be reviewed and updated to support the ZDHC MRSL Version 2.0.

Focus Area: Process



Overview

The Process Focus Area works to promote good chemical management practices and the harmonised implementation of ZDHC tools in the value chain. This includes developing and maintaining tools, like the ZDHC Chemical Management System (CMS) Guidance, which helps suppliers better manage chemicals in their day-to-day operations.

We also strive for alignment with industry tools. This includes, but is not limited to, the Chemical Management Module of the Sustainable Apparel Coalition's (SAC) Higg Facilities Environmental Module (FEM 3.0), which aims to assess supply chain practices for chemical management.

Achievements 2018



Chemical Inventory List alignment with the Textil Bündnis, this extensive best practice format can be found [here](#).

Next Steps

- ▶ Update and launch the ZDHC Chemical Management System (CMS) Guidance.
- ▶ Review the Chemical Guidance Sheets as part of the ZDHC MRSL update process.



Focus Area: Output



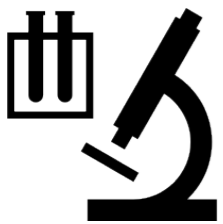
Overview

The Output Focus Area works to support and verify the work of the other Focus Areas. This includes developing and maintaining the following ZDHC tools:

- **ZDHC Wastewater Guidelines** - industry guidelines that define a single, unified standard for wastewater testing that goes beyond regulatory compliance. It includes ZDHC MRS� parameters (built on three levels - foundational, progressive and aspirational) and conventional parameters such as pH, BOD, COD, etc.
- **ZDHC Gateway - Wastewater Module** - a global online platform for sharing verified test data on wastewater and sludge, for testing done against the ZDHC Wastewater Guidelines.
 - **ZDHC ClearStream** - a universally accepted wastewater reporting standard for output control. This report helps suppliers understand their performance and the degree to which they conform to the ZDHC Wastewater Guidelines. Suppliers can use this report to easily demonstrate their performance to multiple customers.

Achievements 2018

77 ZDHC Accepted Laboratories (Provisional) in 24 Locations



ZDHC's Provisional Laboratory Acceptance Programme was established to support the implementation of the ZDHC Wastewater Guidelines in the value chain. It also ensures a consistent quality level for wastewater and sludge test data submitted on the ZDHC Gateway – Wastewater Module. This data is submitted by laboratories on behalf of suppliers.

Throughout 2018, ZDHC approved 10 new laboratories, bringing the total number of ZDHC Accepted Laboratories to 77. The list is publicly available on the ZDHC website, for users to access at any time. The date at the top of the list indicates when the latest update was made.

Wastewater Treatment Technologies Document for the Apparel, Textile and Footwear Industry was Published

ZDHC published the ZDHC Wastewater Treatment Technologies document in June. It offers the apparel, textile and footwear industry guidance to improve the quality of wastewater discharge.

Wastewater treatment is a complex process. ZDHC hopes this technical overview of wastewater treatment technologies, in combination with regional training programmes and other relevant references, will help the supply chain to close knowledge gaps. It is intended to increase motivation and knowledge levels within wet processing facilities. This drives implementation of the treatment systems necessary to comply with the ZDHC Wastewater Guidelines.



Download the ZDHC Wastewater Treatment Technologies Document [here](#).

[Read more...](#)





The ZDHC Roadmap to Zero Programme Started to Expand to Cover Man-Made Cellulosic Fibre Production (MMCF)

With the growth in global viscose production, ZDHC initiated collective action on man-made cellulosic fibres (MMCF; including viscose, modal and lyocell). Expansion to cover more materials in the future is anticipated.

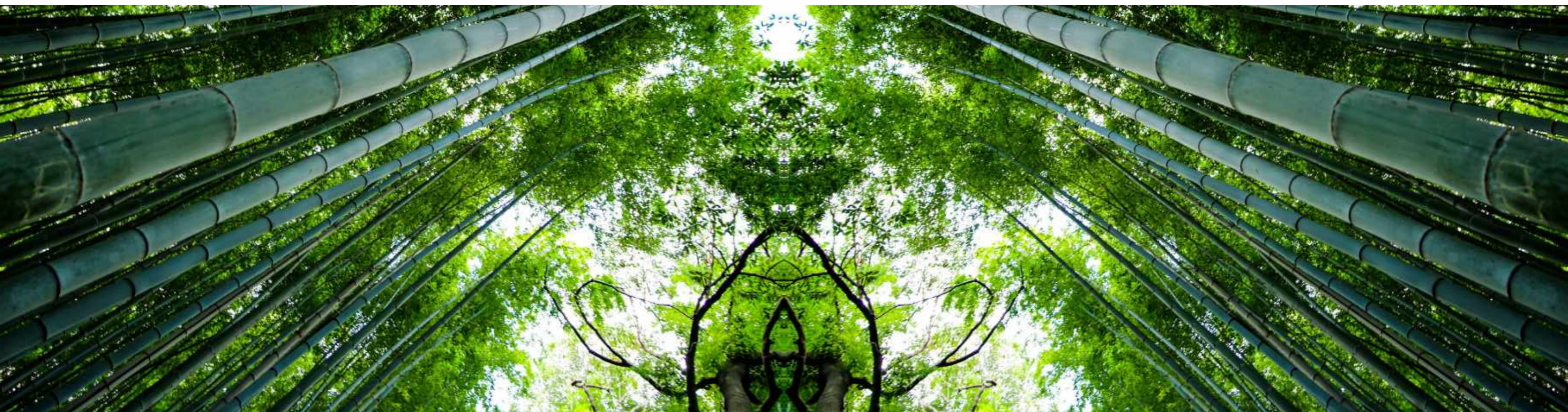
In March, ZDHC hosted the first multi-stakeholder MMCF roundtable. With around 80% of global MMCF producers in attendance, the roundtable confirmed the need for ZDHC to develop a clear framework for guidelines on wastewater, sludge, waste and air emissions. This must be specific to MMCF production and map holistically to the ZDHC toolset. The discussion also confirmed a need for well defined expectations for process by-product recovery to address closed loop commitments. For now, the guidelines will focus on the production of MMCF. The dissolving pulp production process will be considered at a later stage.

ZDHC is collaborating with, Birla Cellulose, Canopy, the Lenzing Group and Sateri. At the time of the announcement, additional strategic partnerships were also underway with other key MMCF stakeholders.

[Read more...](#)

Next Steps

- ▶ Launch Interim Guidelines for facilities with an on-site ZLD (Zero Liquid Discharge) treatment plant.
- ▶ Clarify the sampling, testing and reporting requirements of the current ZDHC Wastewater Guidelines.
- ▶ Begin work on Air Emissions Guidelines for the Textile Industry.
- ▶ Conduct a review of the Leather Wastewater Guidelines Pilot.
- ▶ Launch a pilot on Wastewater Guidelines for PU Coated Fabric Mills.
- ▶ Finalise Wastewater Guidelines for sludge.



ZDHC Gateway



Chemical Module Achievements 2018

ZDHC ChemCheck Roll-Out, the ZDHC Gateway 'Product Passport'



Following its release to the ZDHC Community in December 2017, formulators can create a ZDHC ChemCheck reports* for every publicly registered formulation they have on the ZDHC Gateway. This report is the ZDHC MRSL conformity certificate formulators can use to assure customers that their formulation has been verified against ZDHC Conformance Standards.



*downloadable from the ZDHC Gateway - Chemical Module

Launch of Brand Filter



The 'Advanced Brand Filter' Configuration was released in December 2018. Brands 'set' their preferred chemistry rules on the platform, which becomes visible to suppliers. In this way, the ZDHC Gateway - Chemical Module becomes the first point of contact for suppliers seeking better chemistry options. It also allows them to create a customer-neutral inventory and benefit from combining requirements.

ZDHC InCheck Report Release



In early July, following a pilot period of 5 months (involving 22 brands and suppliers), ZDHC InCheck was launched to the ZDHC Gateway community. ZDHC InCheck reports give suppliers (manufacturing facilities or mills) clear, easily understandable monthly insight on how much their Gateway inventory (a snapshot of their Chemical Inventory List [CIL]) conforms to the ZDHC MRSL. Suppliers also get guidance on how to improve the quality and conformance of input chemistry.



Other Achievements

- In September 2018, a data exchange pilot with bluesign® for automatic migration and verification of bluefinder formulation was done.
- Zendesk’s integration as a knowledge base tool in the ZDHC Gateway.
- Additional technical in-app developments to enhance the user experience.

Chemical Module Next Steps

- Additional third party service providers to deliver ZDHC InCheck reports to suppliers (via API connection with the ZDHC Gateway). Currently, the CleanChain tool is connected to the ZDHC Gateway.
- New pricing structure for the ZDHC Gateway - Chemical Module delivered in April 2019. The new structure is specifically designed to reward registration for formulators with a high ZDHC MRSL conformance level. It features free subscriptions for Level 2 and Level 3 ZDHC MRSL conformant chemical products.
- Plan to finalise the scope of the ‘Complete ZDHC Gateway Inventory’ and provide guidance to suppliers in using ZDHC InCheck functionality.
- Continue engaging formulators to increase the formulation coverage of ZDHC Gateway verified database.
- Prepare the ZDHC Gateway for the upcoming ZDHC MRSL Version 2.0 update (from version control to filtering ‘reformulated’ formulations).

Wastewater Module Achievements 2018



Release of the Public Disclosure Portal

As part of efforts to improve global wastewater quality, ZDHC released the Public Disclosure Portal in July. This online tool helps the industry, in particular brands and facilities, to identify gaps and drive performance in meeting the requirements of the ZDHC Wastewater Guidelines.

The Public Disclosure Portal builds on the ZDHC Wastewater Guidelines by providing information on conformance, to identify the most impacted areas worldwide and prioritise actions to mitigate the environmental impact of supply chains. Aimed at all value chain actors, the goal is to drive both demand and supply for sustainable chemistry and improved wastewater treatment practices. The name of facilities is not disclosed in the portal and indication of their exact location is limited to regional level. By comparison, the ZDHC Gateway - Wastewater Module offers full visibility to ZDHC contributing brands and retailers.

The Public Disclosure Portal can be accessed [here](#).



Root Cause Analysis and Corrective Action Template Upload

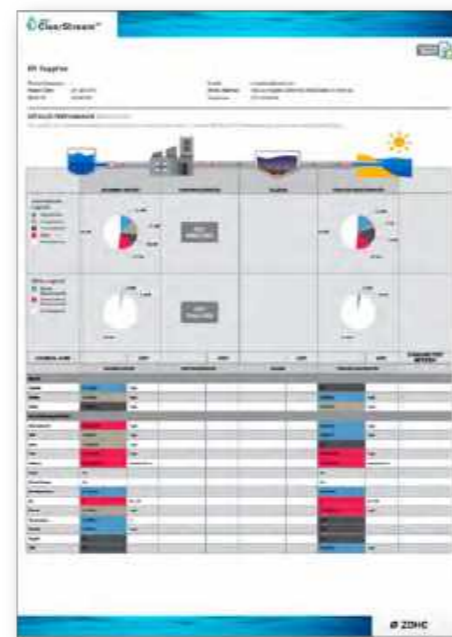
Since November 2018, the Root Cause Analysis and Corrective Action Template Uploads are available on the ZDHC Gateway - Wastewater Module. ZDHC released a standardised template for Root Cause Analysis and Corrective Action Plan (RAC and CAP) to support suppliers' efforts to improve wastewater operations within their facilities. It also supports improvements to chemical management when non ZDHC MRSL conformant chemical formulations are identified within a facility. There is a dedicated area in the ZDHC Gateway - Wastewater Module for uploading completed RAC and CAP files.

ZDHC ClearStream Report Improvements



Also in 2018, improvements were made to the ClearStream Report, including:

- The ability to compare conventional parameters and ZDHC MRSL test results against ZDHC Wastewater Guideline limits.
- New conversion factors were added in the ZDHC Gateway. This means laboratories can report in different units, while results are converted to ZDHC Wastewater Guideline required reporting units.



Other Achievements

Pilot data interchange with IPE was completed successfully in 2018. The interchanged IPE detox data is visible, as Unverified Data, in the Public Disclosure Portal.



Since April 2018, suppliers can document their Wastewater Permits on the ZDHC Gateway. In addition, they can digitise the permitted discharge limits (Substance Control List) and use the platform to check their performance online.

Additional technical in-app developments will enhance the user experience. These include a review of wastewater data reminders, automatic publishing on Waterdata, and the ability to filter Waterdata by 'Bookmarks.'

Wastewater Module Next Steps

- ▶ Prepare the ZDHC Gateway for the upcoming Wastewater Guidelines update. This means modularisation of the Wastewater Module to:
 - a) ensure correct versioning is applied to the ClearStream Report
 - b) enhance capability to host multiple lists of parameters and limits
 - c) enable application of smart testing rules for eligible facilities
- ▶ Make improvements to ClearStream Reports via:
 - a) tracking reasons for 'not analysed' analytes in wastewater reporting
 - b) accounting for different discharge points and displaying that on ClearStream
- ▶ Finalise the Electronic Data Reporting Template. This template will enable ZDHC Accepted Laboratories to upload wastewater test results with minimal manual data entry intervention, increasing data accuracy and reliability. The template will capture additional details like quality assurance (QA) data, quality control (QC) data, or holding time, and transfer that directly onto the ZDHC Gateway - Wastewater Module. Electronic data reporting will be supported by data validation in the ZDHC Gateway's back-end system. This will ensure uploaded data is consistent and meets the required data standards.

ZDHC Gateway Joint Modules Achievements

-  The ZDHC Gateway can capture supplier’s facility and raw material type, alongside processes and wastewater treatment information.
-  Access to the ZDHC Gateway granted to the Friends of ZDHC and their supply chains.

ZDHC Gateway Joint Modules Next Steps

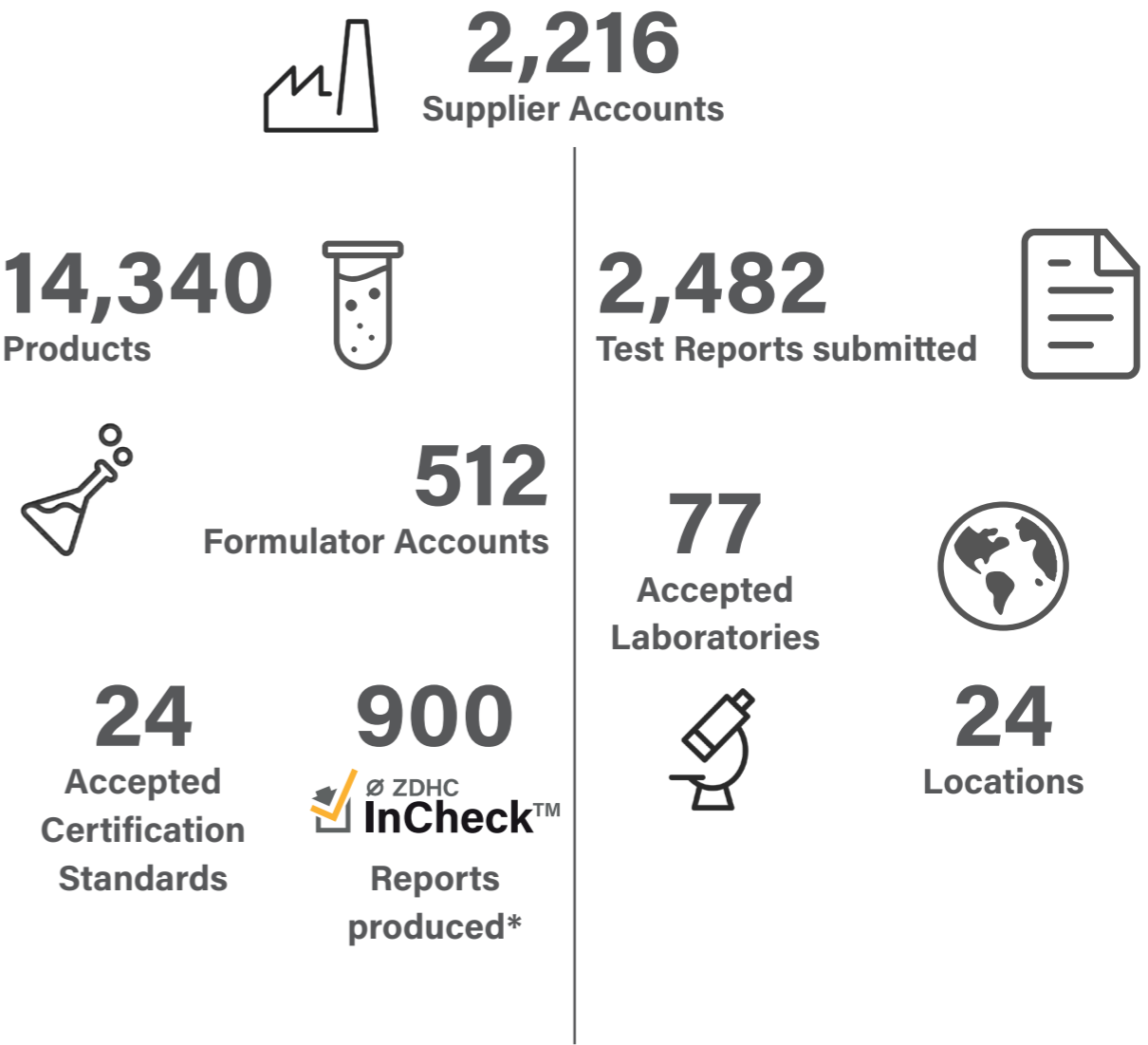
In the second half of 2019, the primary focus will be on improving data quality in the ZDHC Gateway. This is a cornerstone of progress and impact reporting as part of supporting the industry to move forward. Action items in the data quality project will include:

- ▶ A data audit
- ▶ Historic wastewater data cleansing
- ▶ Improvements to future data entry by all parties using the ZDHC Gateway

ZDHC Gateway in Numbers

Chemical Module

Wastewater Module



During 2018, The ZDHC Foundation **hosted 43 English and Chinese language webinars** focussed on implementation and training for the ZDHC Chemical Module. The audience was a good mix of brands and suppliers. There were approximately **5,400 registrations** in total.

Also during 2018, The ZDHC Foundation **hosted 13 English and Chinese language webinars** on implementation and training for the ZDHC Wastewater Module. The audience was a mix of brands, suppliers and ZDHC Accepted Laboratories. A total of **1,218 registrations** were received.

*via ZDHC Gateway and 3rd party service providers

ZDHC Academy



Overview

The ZDHC Academy was established in late 2016. It is the go-to training platform for building awareness, knowledge and skills on sustainable chemical management and ZDHC tools along textile, apparel, footwear and leather value chains. This globally recognised training platform offers high quality, certified training courses.

Accredited Training Providers deliver ZDHC certified training to key industry stakeholders throughout the value chain, including brands, retailers, manufacturers and tanneries. The aim is to help everyone understand and adopt sustainable chemical management best practices. The ZDHC Academy is available to the entire industry, including ZDHC Contributors as well as non-ZDHC affiliated organisations.

Achievements 2018

Second Round of Accredited Training Provider Applications

In April, ZDHC opened its second application phase for interested and qualified organisations and their trainers to become ZDHC Accredited Training Providers. Following the first round of applications in 2016, ZDHC sought additional training providers to support the global expansion of ZDHC certified training. Training is delivered via the ZDHC Academy, and is brought to all apparel, textile, footwear and leather sourcing, trading and retail regions.

Throughout the year, organisations have gone through the application process and ZDHC will announce the new ZDHC Accredited Training Providers in 2019.

[Click here](#) to view the application requirements.

[Read more...](#)



Last year's training tackled critical issues such as the micro level details of Chemical Management, which are essential for us all to achieve the goals of ZDHC. The opportunity to attend the workshop virtually effectively was a good one as overseas training remains a challenge for most of us. There is a need for more training in Sri Lanka to improve the awareness level of the supply chain. We look forward to having more localised sessions in the future.



Suneth De Silva
Assistant Manager - Chemical Sustainability
at MAS Holding



Updated ZDHC Academy Platform Delivers an Enhanced Sustainable Chemical Management Training Experience

In November, ZDHC announced the launch of its new and improved ZDHC Academy. The relaunched version offers an improved navigation. Search and registration for suitable training courses is also easier on the new platform. In addition, trainees can now track their learning progress.

Access the ZDHC Academy [here](#).

[Read more...](#)





New Training Course Available on the ZDHC Academy

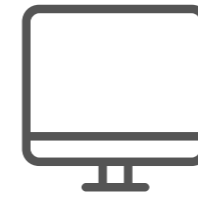
As part of revamping the ZDHC Academy, ZDHC began to offer a new training course in November. The ZDHC Wastewater Management Training course introduces participants to the key elements of the ZDHC Wastewater Guidelines. It outlines how to implement the Guidelines and how to conduct a root cause analysis where test results show non-conformance. This training also provides an overview of each stage of the wastewater treatment process, giving all participants a basic understanding of today's wastewater treatment technology.

Register for the Wastewater Management course through the ZDHC Academy.

Next Steps

- ▶ Announce additional ZDHC Accredited Training Providers.
- ▶ Expand the ZDHC Academy's country scope to grow global reach. Starting with South Korea, Mid- and South-America and Eastern Europe.
- ▶ Create new Training Materials, including the following items:
 - Chemical Management - Tannery Specific
 - Chemical Management - Denim Specific
 - Chemical Management - Brands and Retailer Specific
 - Wastewater Management - Top Issues and Best Practices

The ZDHC Academy 2018 in Numbers



3,088

New Accounts created on the ZDHC Academy Platform



1,134

Total Training Participants



93

Training sessions held



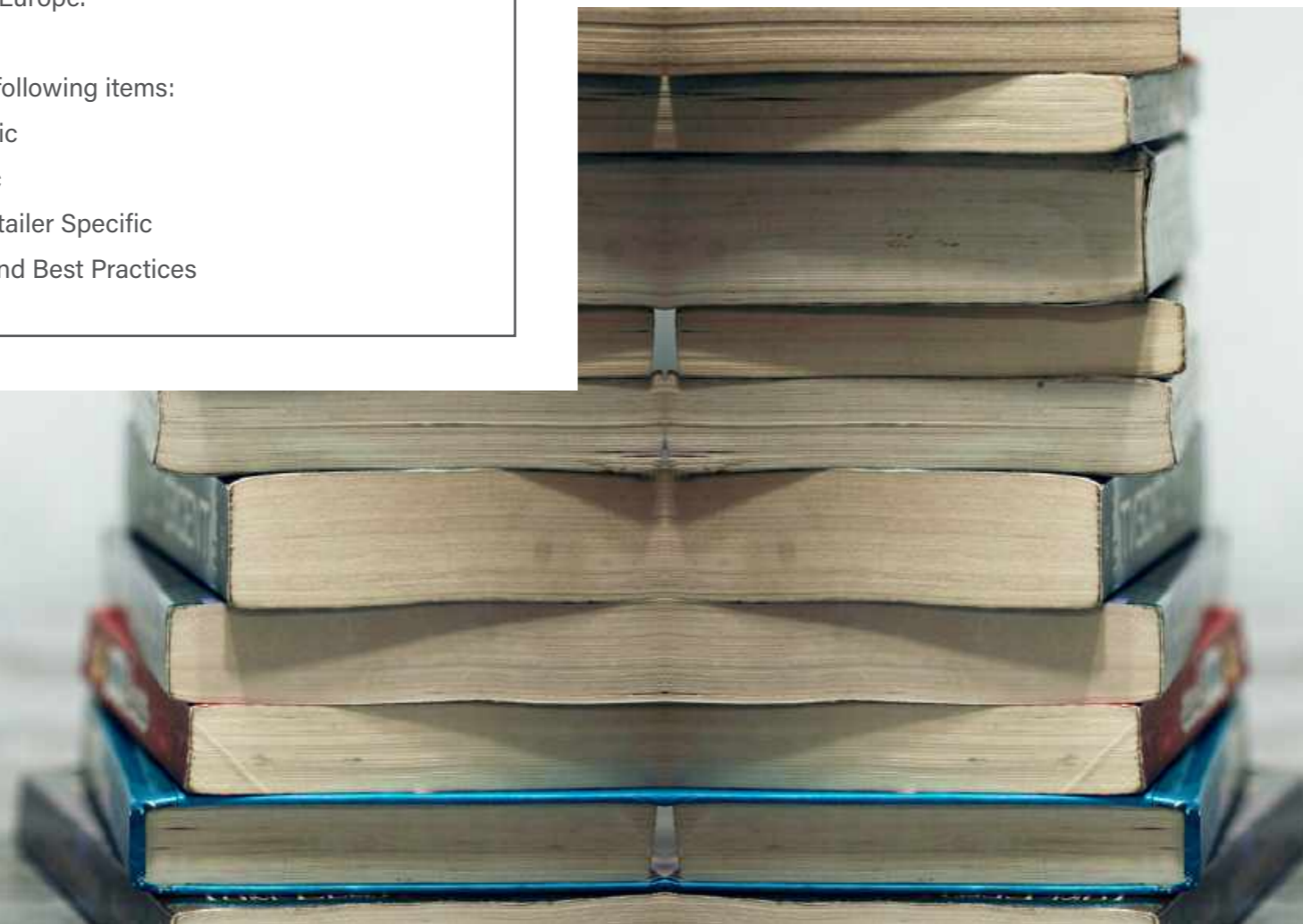
7

ZDHC Accredited Training Providers



18

Different locations where trainings were held



—

Regional Highlights - China

—

The implementation of ZDHC tools in the industry is key to the overall success of the ZDHC Programme. By setting up in East Asia in 2016, and collaborating with industry associations, ZDHC has created awareness among key textile wet processing mills and textile chemical companies. The main focus for 2018 was to support further implementation along the ZDHC Contributors' value chains. Various conferences and webinars helped towards achieving this goal.

China handles over 70% of the world's synthetic leather/coated fabric manufacturing. A collaboration was created with the Artificial & Synthetic Leather Committee of China Plastics Processing Industry Association (CPASL). As part of this collaboration, ZDHC also piloted a DMF Phase-out innovation project for the synthetic leather/coated fabric industry in China.

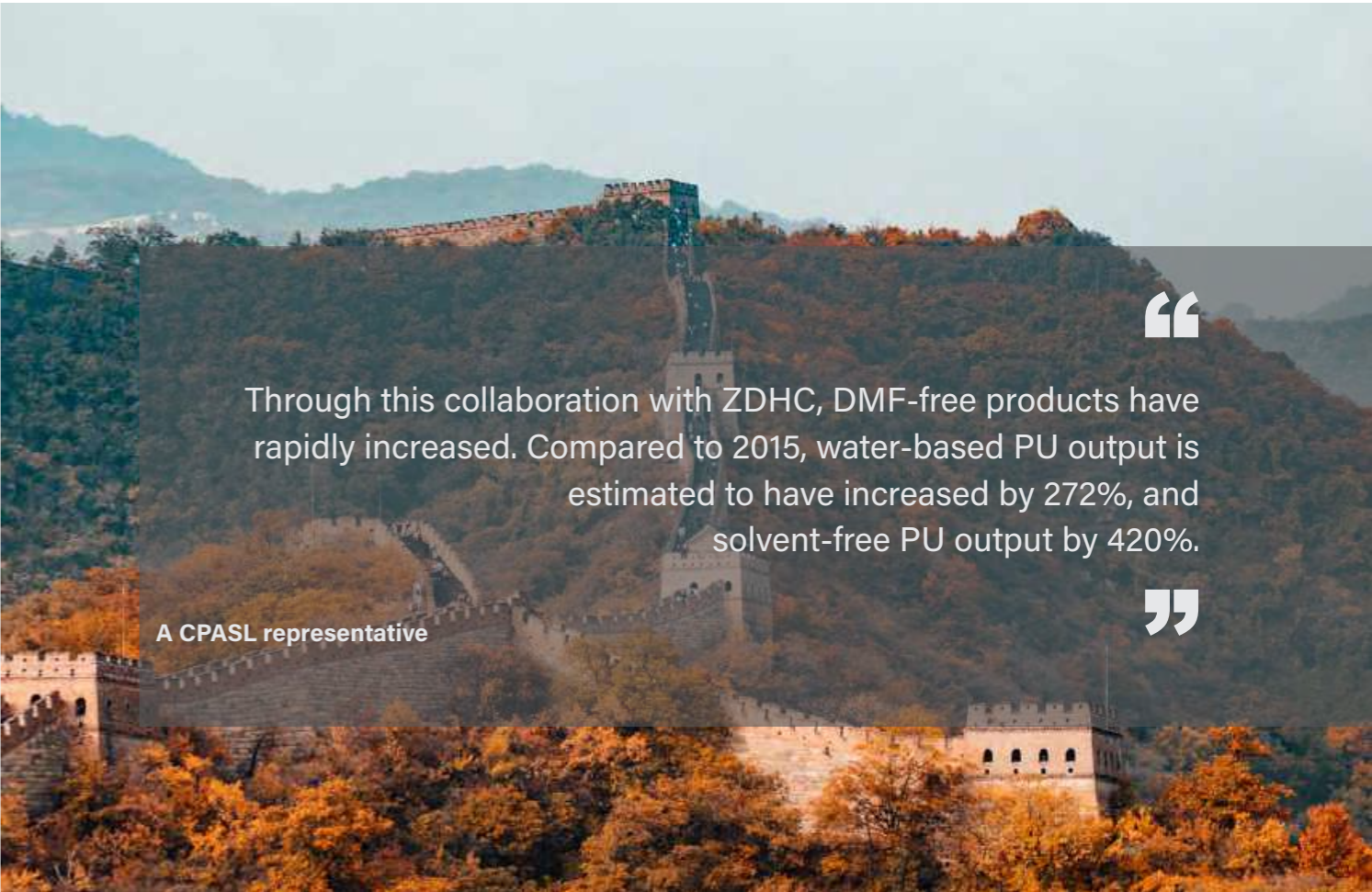
The leather industry is another key target, where the aim is to create awareness of the ZDHC Programme and implementation. In 2018, a collaboration with the China Leather Industry Association and the Taiwan Leather Industry Association began.

ZDHC also reached out to the raw material industry, initially targeting man-made cellulosic fibre (MMCF). An MoU was signed with the China Chemical Fibre Association for deeper collaboration in this area.



Achievements 2018

- 18 webinars and several in-person workshops were held on the ZDHC Gateway and ZDHC Wastewater Guidelines. ZDHC also attended various key conferences and seminars. This resulted in 512 formulator and 2,004 supplier accounts on the ZDHC Gateway.
- 26 key synthetic leather/coated fabric manufacturers and 17 key synthetic leather/coated fabric chemical manufacturers joined the holistic ZDHC implementation.
- Collaboration began with the China Leather Industry Association and the Taiwan Leather Industry Association.
- An MoU was signed with the China Chemical Fibre Association.



—

Regional Highlights - India

—

Newly established in 2018, the focus for the South Asia Region was to create awareness and visibility of the ZDHC Programme. The aim was to engage stakeholders from the textile and chemical industry, associations, local representatives of Signatory Brands and regulatory authorities, leading to more proactive participation in the Programme. In-person engagements and meetings with key stakeholders were key to driving this.

A collaboration also began with (CITI) Confederation of Indian Textile Industry and NIFT - TEA (Tirupur Exporters Association) to promote ZDHC to their stakeholders. A pilot project for a ZDHC Chemical Management Framework in India was run with the Nahar Group under the Implementation HUB and using ZDHC internal resources. This one and a half month activity served as a learning experience and a good example of showcasing an implementation project.

The chemical and dyes industry in India was also engaged to register and upload their products on the ZDHC Gateway with ZDHC approved certifications.



Achievements 2018



ZDHC spoke at various conferences and seminars, where speaking slots were used to give each audience an overview of the ZDHC Programme. Events and meetings were also attended with relevant stakeholders to drive visibility.



An MoU was signed with CITI (Confederation of Indian Textile Industry) and NIFT - TEA (Tirupur Exporters Association).



ZDHC Chemical Management Framework pilot project in India, to support implementation of the ZDHC Chemical Management Framework.



The ZDHC Gateway - Chemical Module was promoted amongst the chemical and dyes industry in India.



Regional Highlights - Italy

In Autumn 2017, Italy was set as a 'priority country' for ZDHC. A strategic plan was prepared for this market to gain higher visibility, engage key stakeholders and drive implementation. In July 2018, Alessandra Tortora was appointed as Regional Manager to grow the work in the region. The main activities included engaging stakeholders and forming strategic partnerships. Existing Contributors and their networks were also leveraged to raise in-country awareness. The domestic Contributor base was grown selectively across all categories, including domestic brands and retailers.





In-person workshops were conducted with suppliers and chemical manufacturers. Strategic partnerships were also developed with leading industry associations/influential stakeholders to grow reach. Bilateral meetings were held with several stakeholders. In particular: the Italian Luxury Chamber (CNMI); the Italian Textile Producers Association (SMI); the Italian Chemical Companies Association (Federchimica); the Italian Tanneries Association (UNIC); textile and leather chemical companies (Bozzetto, New Tanatex, Rudolph, Achitex Minerva, Nearchimica, Stahl, Smit&Zoon).

ZDHC conducted targeted engagement of textile and leather districts, with one awareness raising workshop per relevant district (in particular Como, Busto Arsizio, Santa Croce s/Arno, Arzignano).

Implementation and innovation pilots helped to anchor the ZDHC Academy and Implementation HUB in Italy, while participation in the ZDHC Gateway was grown through dedicated in-person meetings and calls.



Achievements 2018

-  A 'Leading Mill' project was run under the Implementation HUB to demonstrate 'best-in-class' ZDHC implementation at textile mill level.
-  A wastewater pilot was run with tanneries to collect test data and take learnings for creating the ZDHC Wastewater Guidelines for Leather.
-  ZDHC engaged with the local supply chain of ZDHC Signatory Brands through round table meetings.
-  There was a continued roll-out of the ZDHC Academy across Italy, with new ZDHC Accredited Training Providers.

The Implementation HUB

The Implementation HUB was set up to drive the large-scale uptake of chemical and environmental management best practices and innovations across the entire industry, worldwide.

It offers a platform to find and match with Accredited Experts and Consultants for support on setting up chemical management strategies and implementing continuous improvements at brand, retail and supply chain level. It also offers a scaling environment for safer chemistry innovations and enables large-scale implementation progress.

Achievements 2018

Friends of ZDHC Event

The Implementation HUB hosted the second edition of the Friends of ZDHC event on December 6 and 7 in Amsterdam, under the theme of the Implementation and Innovation Experience. Nearly 200 leaders and experts attended the Friends of ZDHC event from industry, NGOs, multilateral organisations and associations.



The first day of the event included keynote speeches by Inditex, Greenpeace and ALDI., followed by ZDHC implementation experiences from around the globe, with examples from China, India and Italy. Several organisations such as the Leather Working Group, amfori-BEPI, the German Partnership for Sustainable Textiles, AFIRM and SAICM demonstrated what makes their partnership approaches with ZDHC successful.

Panel discussions shed light on themes that are in the spotlight of discussions: the role and engagement of the chemical industry, convergence of brand chemical programmes, fibre production and circularity, and leather innovations.



The second day was dedicated to the theme of safer chemistry innovations and related collaborations. Keynote speakers included the Green Chemistry and Commercial Council (GC3) and the University of Leeds. Fashion for Good, Safer Made and ZDHC explained their approaches to innovation, showcasing how to work at different innovation maturity levels. Three selected innovators, as identified in a joint call from Fashion for Good and ZDHC, pitched their solutions for safer chemistry. A further panel round looked at the role of finance for innovations. Representatives from venture capital and project funding discussed how to support and scale innovations, both in the supply chain and at facility level.



Next Steps

- ▶ Launch the Implementation HUB website.
- ▶ Define the accreditation mechanism for experts and consultants.
- ▶ Establish the Accredited Experts network.
- ▶ Develop the individual brand and retailer roadmaps under the ZDHC Signatory Brand Leader Programme.
- ▶ Set up further implementation projects and innovation pilots across regions.
- ▶ Scale the DMF Phase-out project in China.



Stichting ZDHC Foundation

Watersteeg 3
1012 NV Amsterdam
The Netherlands

www.roadmaptozero.com