

DyeCoo®



NO
COMPROMISE

THE WORLD'S FIRST WATER AND
PROCESS CHEMICAL FREE DYEING SOLUTION

A NEW STANDARD

A revolution in textile processing technology

The logo for DyeCoo, featuring the word "DyeCoo" in a sans-serif font with a small colored dot above the 'o'. It is enclosed in a white circle with a thin grey border.

DyeCoo

A large, abstract graphic consisting of two interlocking, swirling shapes. The left shape is primarily blue, green, and yellow, while the right shape is primarily red, purple, and pink. Both shapes are formed by multiple overlapping, semi-transparent lines that create a sense of depth and movement. The background is a light grey gradient.

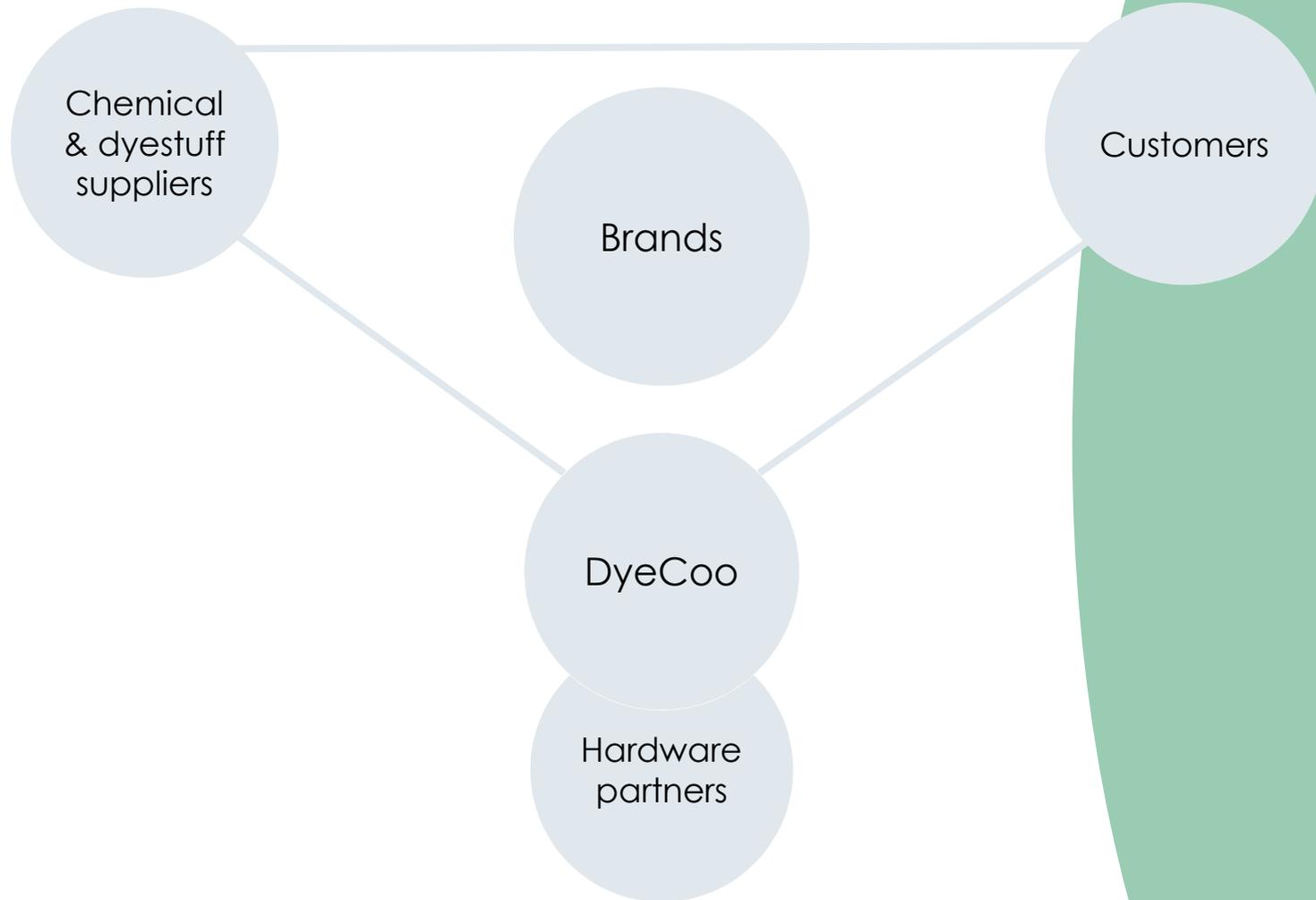
**OUR TECHNOLOGY
DOES NOT COMPROMISE
BETWEEN SUSTAINABILITY
AND PROFITABILITY**

DyeCoo is the world's first supplier of water-free & process-chemical-free dyeing technology. Its revolutionary CO₂-based dyeing process makes textile dyeing sustainable, efficient and profitable.

We want to lead the textile industry towards a lean and clean future. We believe that our revolutionary CO₂-based technology will replace water-based dyeing technology around the world, setting **THE NEW STANDARD** in the textile industry.



COLLABORATIONS





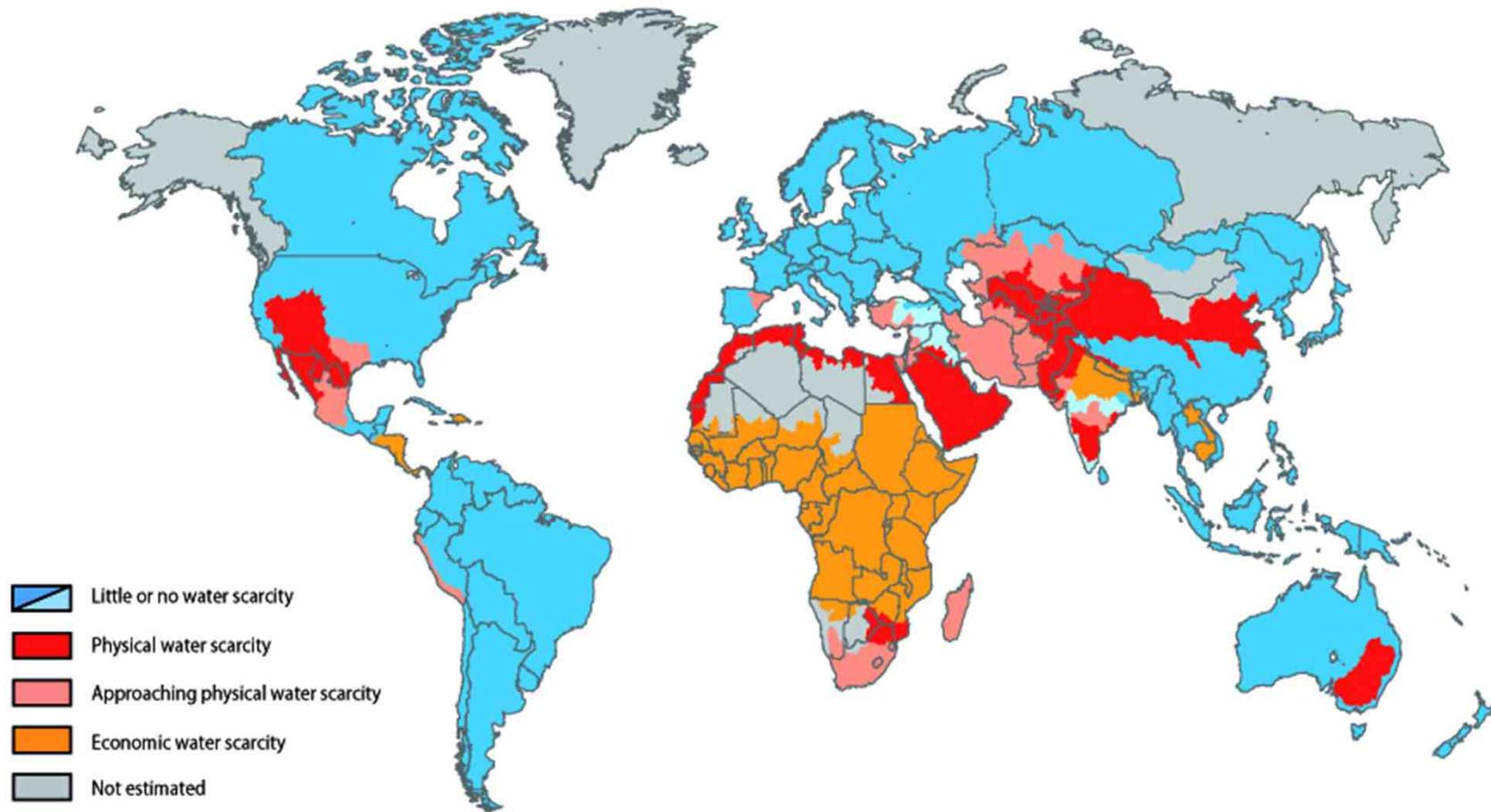
WHY?





WATER SCARCITY

Areas of physical and economic water scarcity

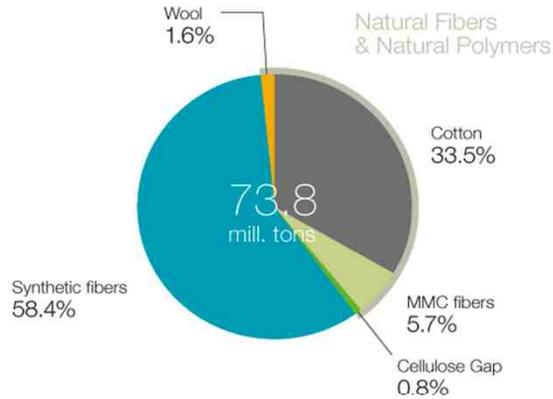


Source: IMWI report, Insights from the Comprehensive Assessment of Water Management in Agriculture, 2006 / p8

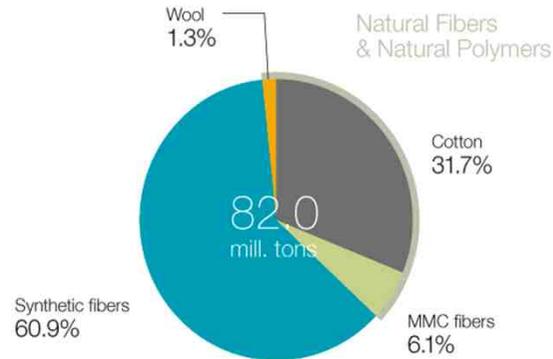


WORLD FIBER PRODUCTION

Global fiber market 2010
total fiber demand: approx. USD 150 bn.

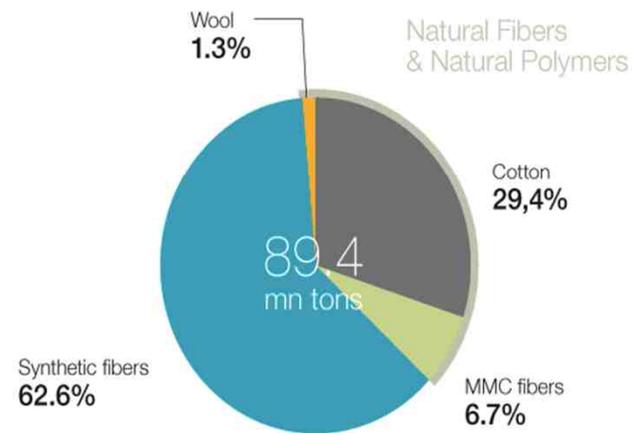
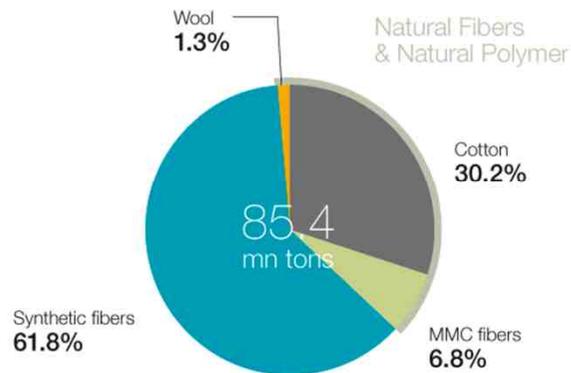


Global fiber market 2012



Global Fiber Market 2014

Global fiber market 2013





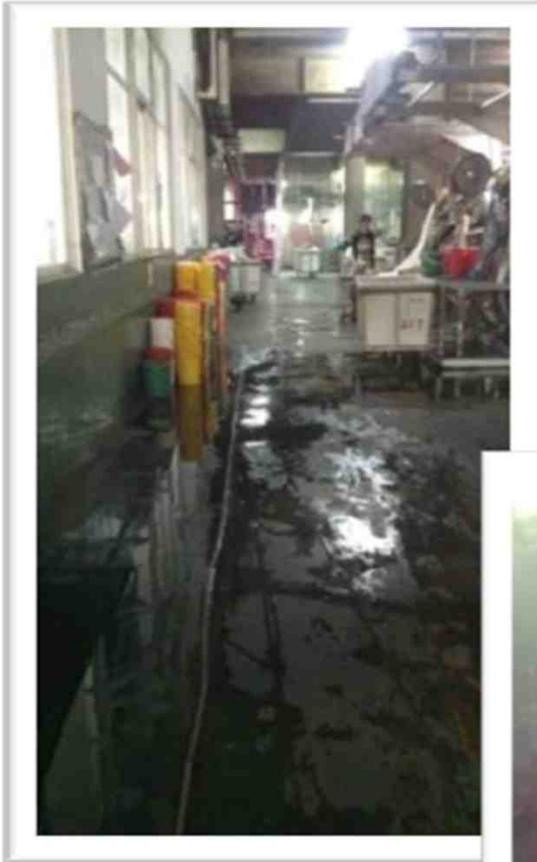
DYEHOUSE



No Compromise



DYEHOUSE TODAY

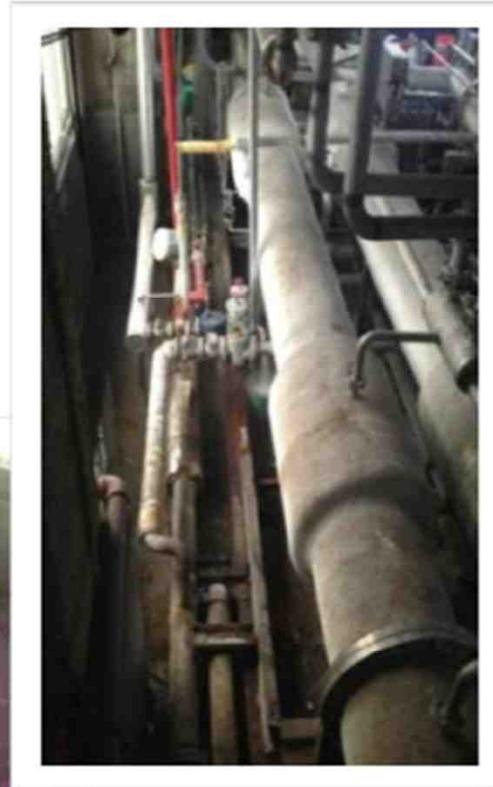


WET

HUMID

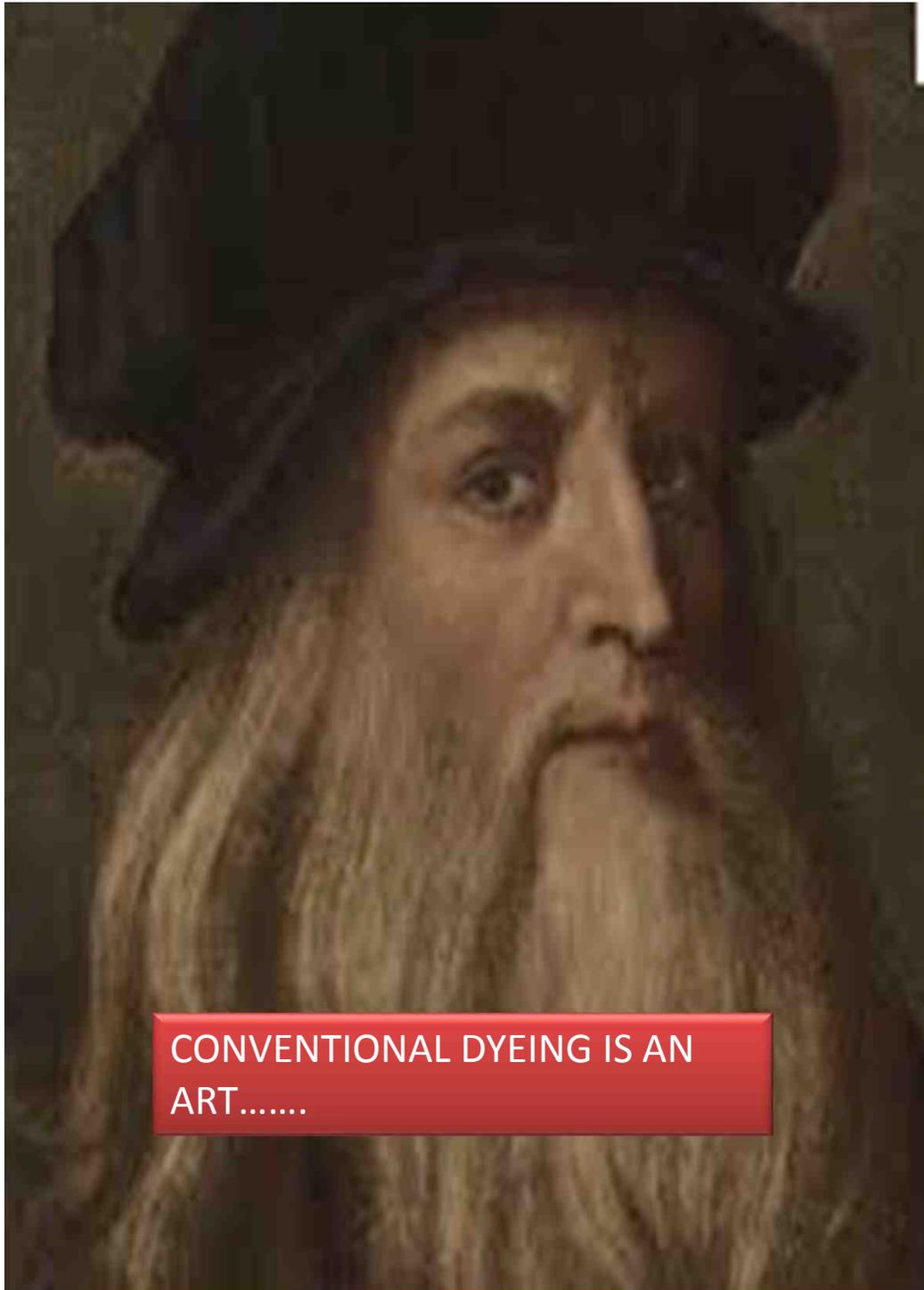


RUSTED

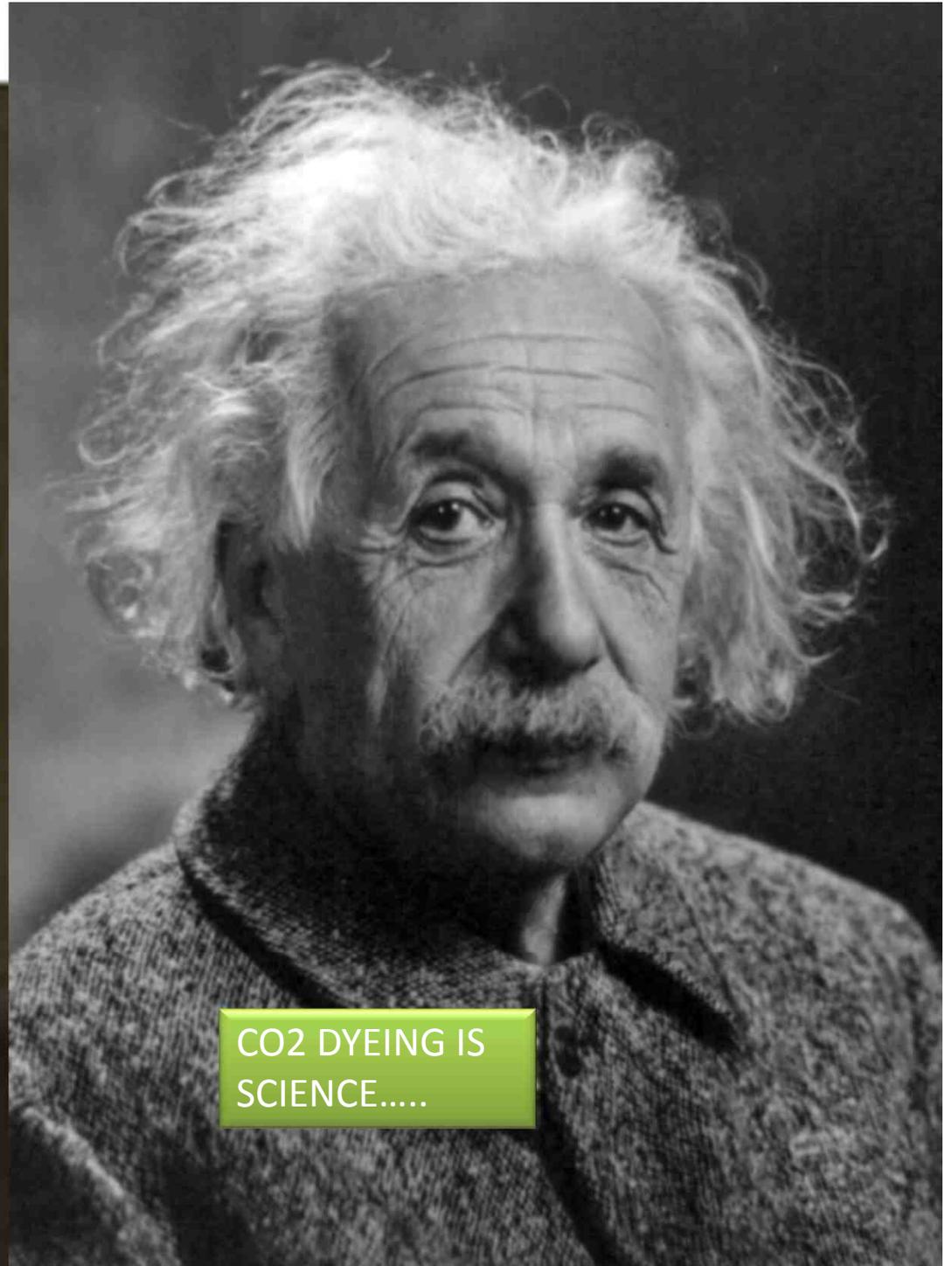


**BULK
CHEMISTRY**





CONVENTIONAL DYEING IS AN
ART.....



CO₂ DYEING IS
SCIENCE.....



CONVENTIONAL DYEING

ENVIRONMENT

Vast quantities of harmful chemicals are used daily. Legislation will continue to restrict this industry.

COSTS

Dyeing textiles is an inexact art, huge amounts of water, chemicals, and energy are used'

LEAD-TIME

Traditional dyeing methods and technologies restrict flexibility and reduces the ability to react to consumer needs



DYE HOUSE OF THE FUTURE



No Compromise



WATER FREE DYEING

- # Uses supercritical CO₂
- # Zero water
- # Zero waste water
- # Zero processing chemicals
- # Reduced energy
- # Fabric exits dry



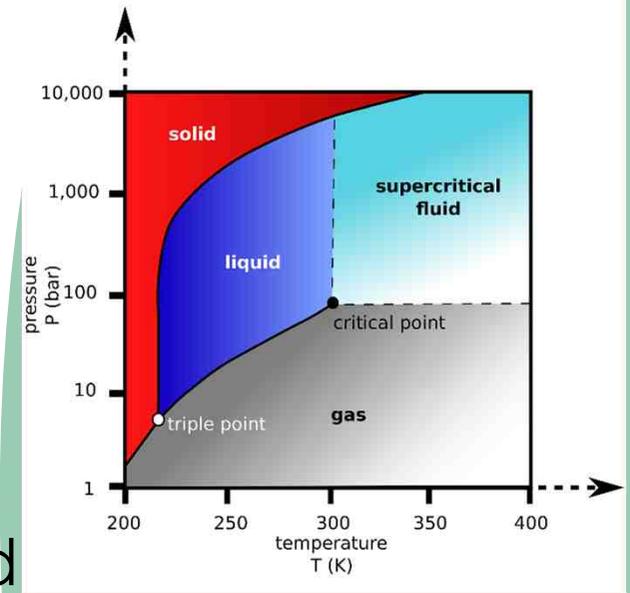
ECONOMICAL BENEFITS

- # Significant lower operational cost
- # 98% color consistency
- # Easy color correction
- # Shorter batch times
- # Pure & less dyes, no chemicals
- # CO2 is recycled



SUPERCRITICAL CO₂

- # Safe: non flammable – non toxic
- # Sustainable & recyclable
- # Inexpensive & abundantly available
- # The same quality anywhere in the world
- # The best of both worlds (*permeability, density, carrier*)



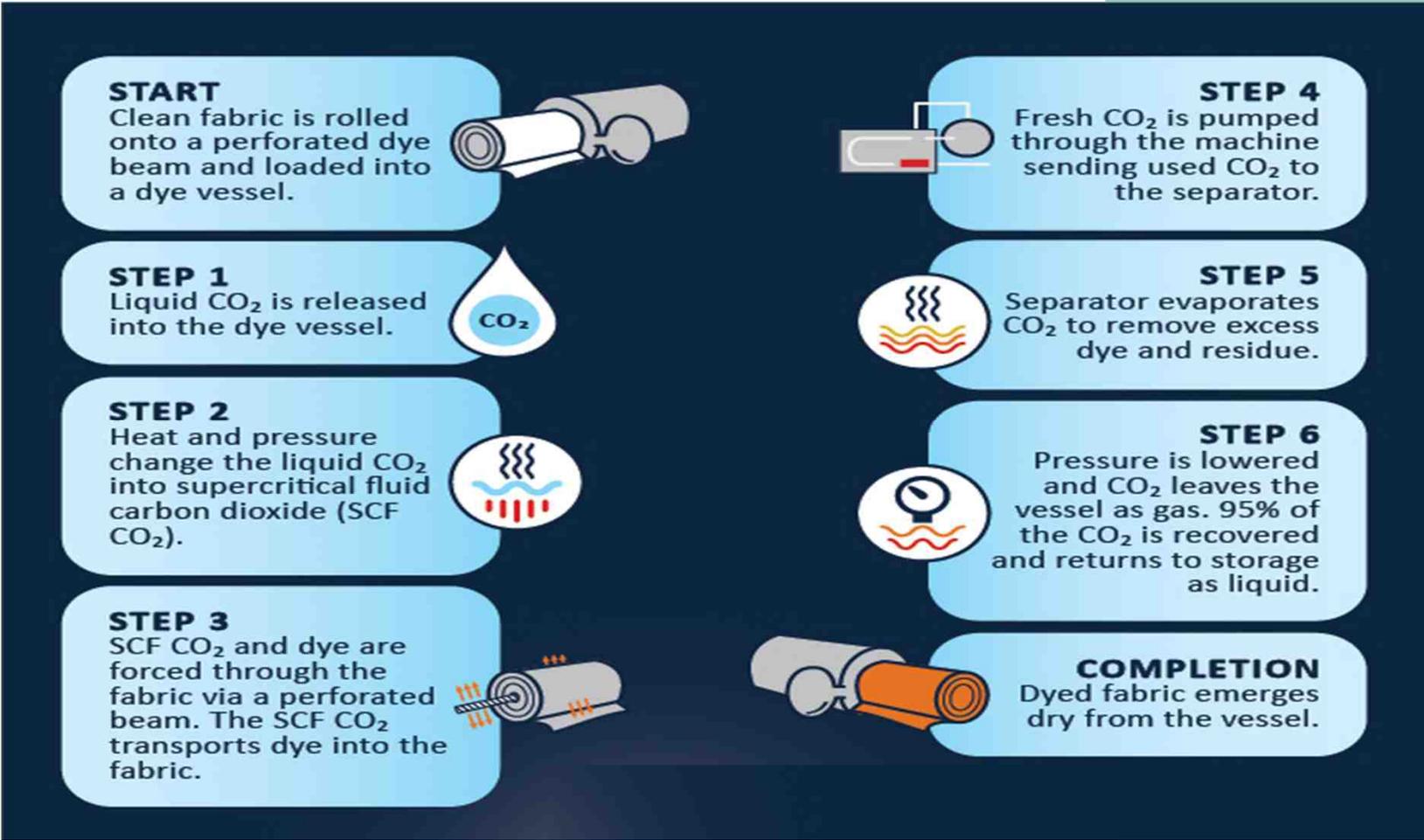


CO2 DYEING ADVANTAGES

- # Dyes dissolve naturally
- # Polymer fibers swell → dye is easily diffused
- # Deep penetration of dye in the fiber
- # Effective coloration of hydrophobic polymers



PROCESS STEPS





WATER FREE DYEING SCIENCE



No Compromise



COLOR MATCHING/LAB-DYES



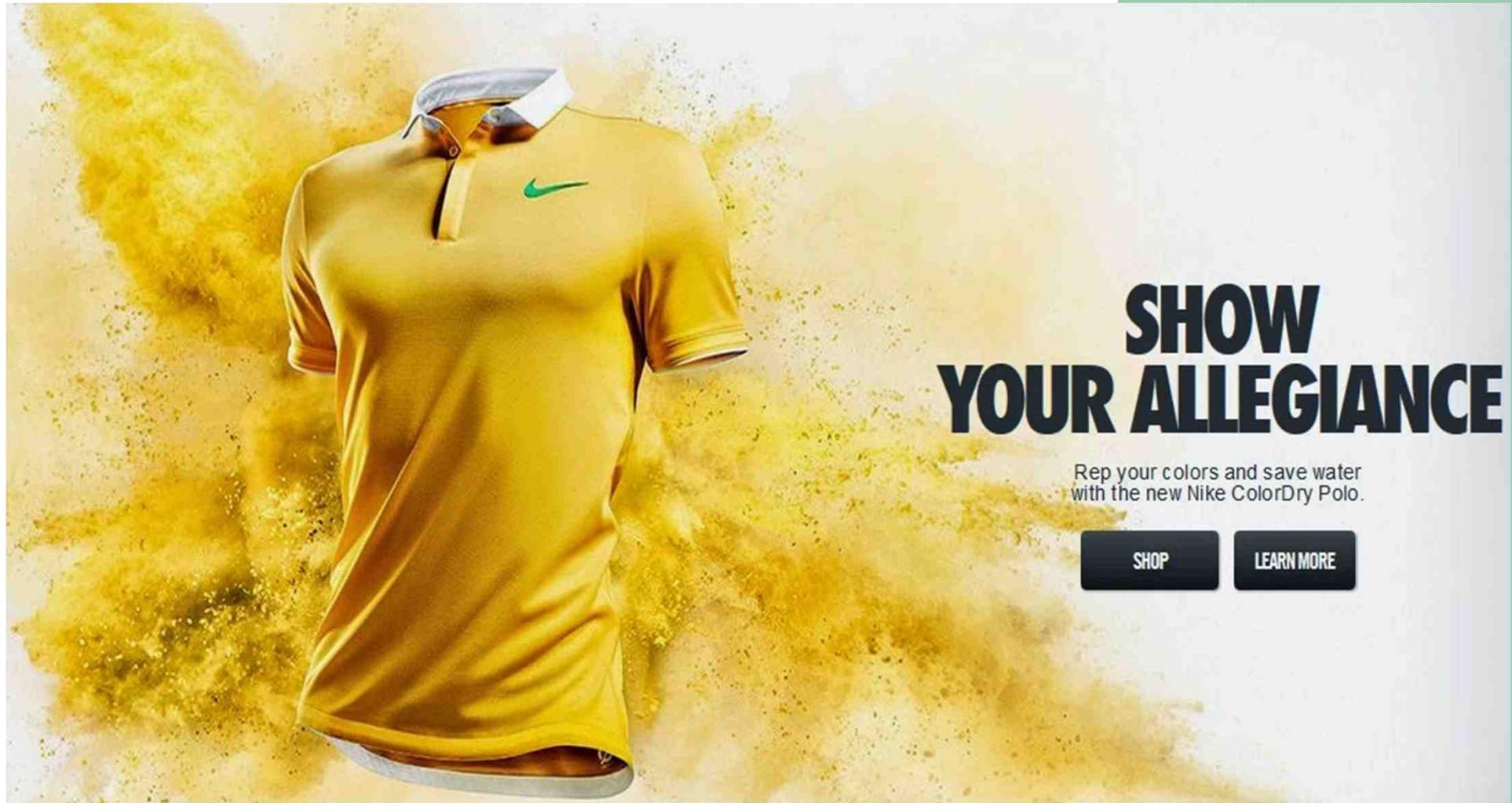
THE WORLD'S FIRST WATER AND
PROCESS CHEMICAL FREE DYEING SOLUTION

Main office
Address: Flevolaan 50, 1382 JZ Weesp, The Netherlands
Phone: 31 (0)294 41 00 25, Email: info@dyecoo.com

dyecoo.com



BRANDS & PRODUCTS

An advertisement for the Nike ColorDry Polo. It features a yellow polo shirt with a green Nike swoosh on the chest, set against a background of splashing yellow liquid. The text 'SHOW YOUR ALLEGIANCE' is prominently displayed in large, bold, black letters. Below this, a smaller line of text reads 'Rep your colors and save water with the new Nike ColorDry Polo.' At the bottom right of the ad, there are two dark buttons: 'SHOP' and 'LEARN MORE'.

**SHOW
YOUR ALLEGIANCE**

Rep your colors and save water
with the new Nike ColorDry Polo.

[SHOP](#) [LEARN MORE](#)



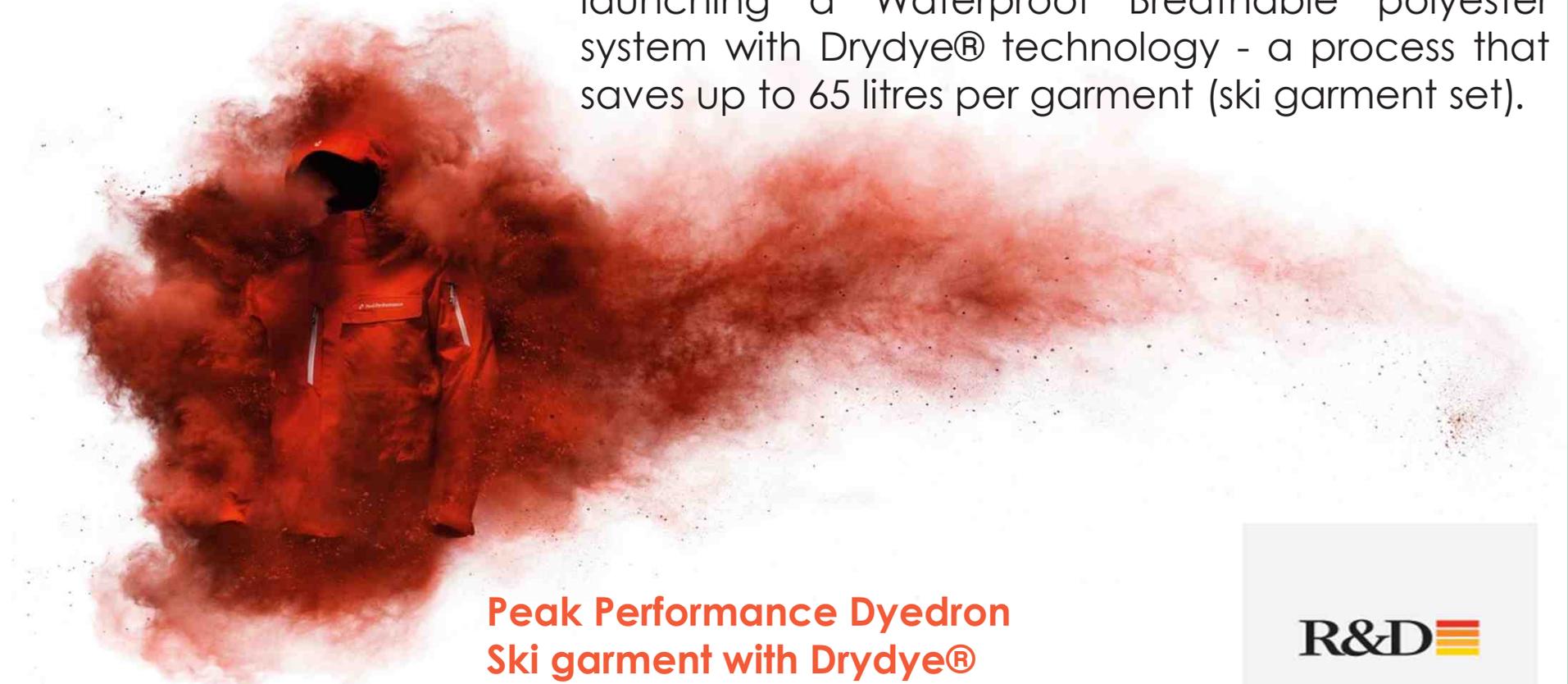
BRANDS & PRODUCTS





BRANDS & PRODUCTS

Peak Performance is the first worldwide partner launching a Waterproof Breathable polyester system with Drydye® technology - a process that saves up to 65 litres per garment (ski garment set).

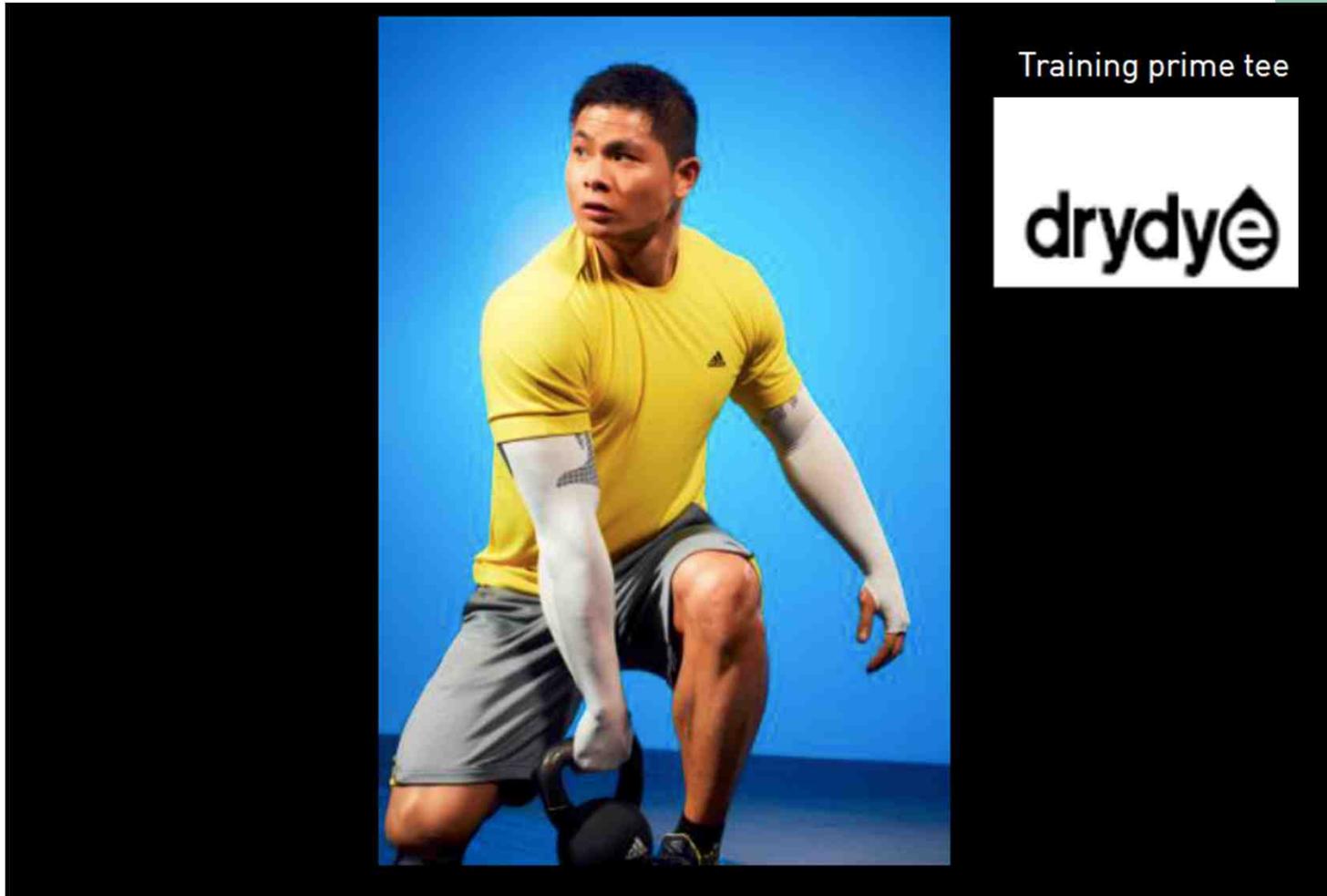


**Peak Performance Dyedron
Ski garment with Drydye®**





BRANDS & PRODUCTS



Training prime tee





SAFETY





SAFETY

Assurance 1

CERTIFICATIONS

Certified by
Veritas and
Lloyd's.

Assurance 2

MACHINE

CO₂ detection
system, safety
valves and
emergency stops.

Assurance 3

SOFTWARE

Software prevents
operating errors

Assurance 4

ASME

Built according to
ASME standard.

(Design and
fabrication regulation
for pressure vessels)



SAFETY ASSURANCES



BUREAU VERITAS 

EG-verklaring van Eenheidskeuring

Certificate of Conformity
CE-PED-G-BVAMF-4.11.1491-12-NLD-rev.00

Bureau Veritas Inspection & Certification the Netherlands B.V., verklaart vanuit haar verantwoordelijkheid als Aangewezen Aangemelde Keuringsinstelling (NoBo) met identificatie nummer: 1117 dat de ontwerpbeoordeling en het toezicht op de fabricage en eindcontrole van het onderbeschreven drukapparaat met positief resultaat is doorlopen.

Bureau Veritas Inspection & Certification the Netherlands B.V., acting within the scope of its notification (notified body number 1117), gives permission to sign on the identification number of BV on the pressure equipment. The pressure equipment has been examined against the provisions of annex III, module G of the Pressure Equipment Directive n° 97/23/EC and found to satisfy the provisions of the directive which apply to it.

Fabrikant / Manufacturer	DyeCoo Textile Systems BV
Naam / Name	Leeuwenveldseweg 5, 1382 LV Weesp, The Netherlands
Adres / Address	-
Merksnaam / Branding name	-
Drukapparatuur / Pressure Equipment	2011-D02-01-001
Identificatie Technische Documentatie / Identification technical documentation	CO ₂ Textile Dyeing System
Benoaming drukapparaat / name	DO-02
Fabrieksnummer / fabrication number	-
Type / type	-
Serie- of partijnummers / series number	-
Medium / medium	CO ₂
Categorie / category	IV
Ontwerpcode / design code	ASME B31.3 Process Piping & ASME VIII, div. 1
Ontwerpdruk / design pressure (PS)	80 / 300 Bar
Max. ontwerp temp./max. design temp. (TS max)	150 °C
Min. ontwerp temp./min. design temp. (TS min)	-5 (-20) °C

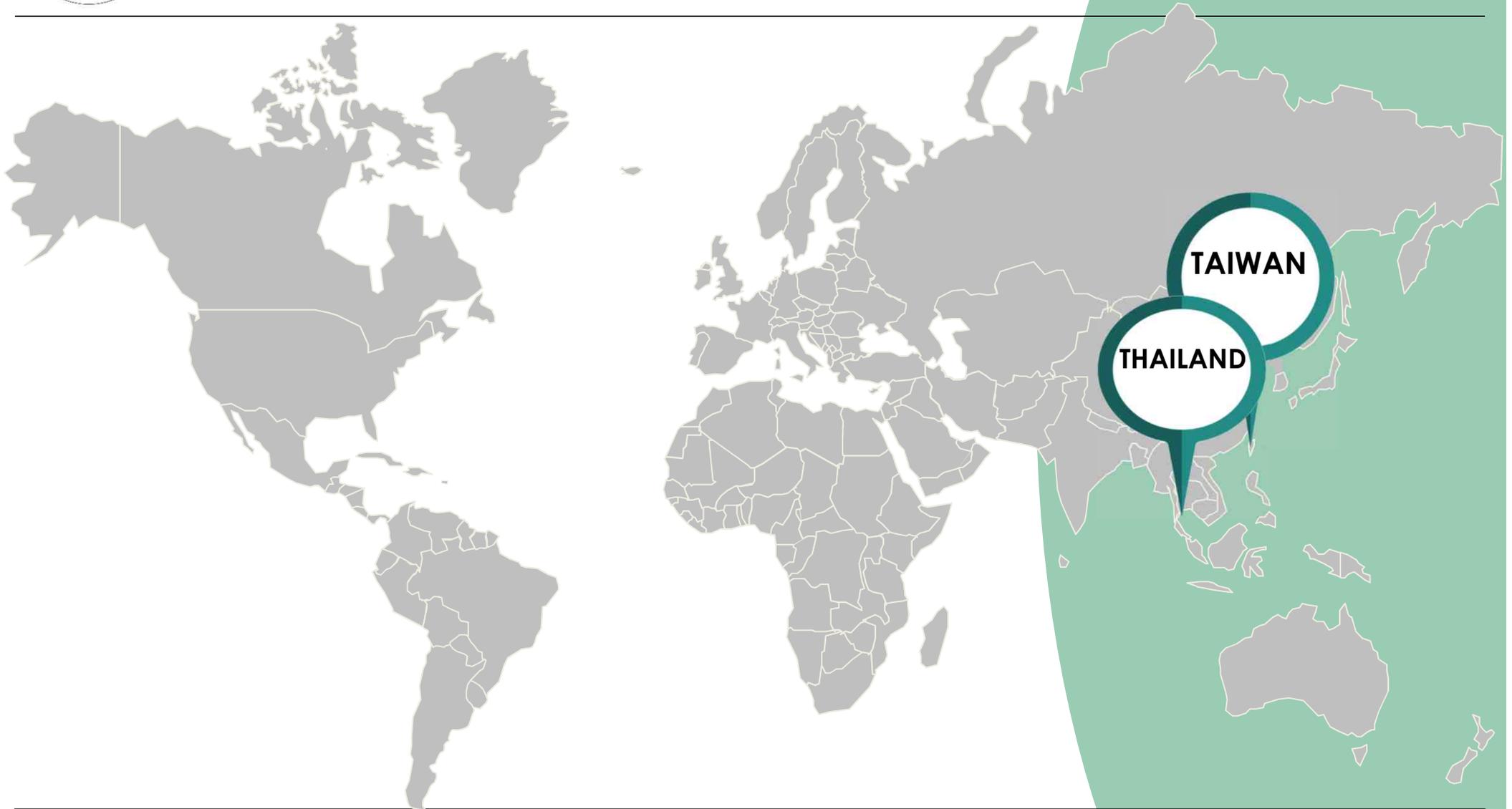
Aangewezen Aangemelde Keuringsinstelling / Notified Body
Rapportage BV / Report number BV: BV.Amf.4.11.1491AR/001
Naam / name: Bureau Veritas Inspection & Certification the Netherlands B.V.
Adres / address: Computeryweg 6, 3821 AB Amersfoort
Datum / date: Jan. 05, 2012
Plaats / place: Amersfoort
Naam ondertekenaar / undersigned by: R. Ong A. Kwiatkowski
Functie ondertekenaar / function: Sr. Inspector 1528

Handtekening / signature: 
Stempel / Stamp: 

INS-PED-F24 (rev 05)

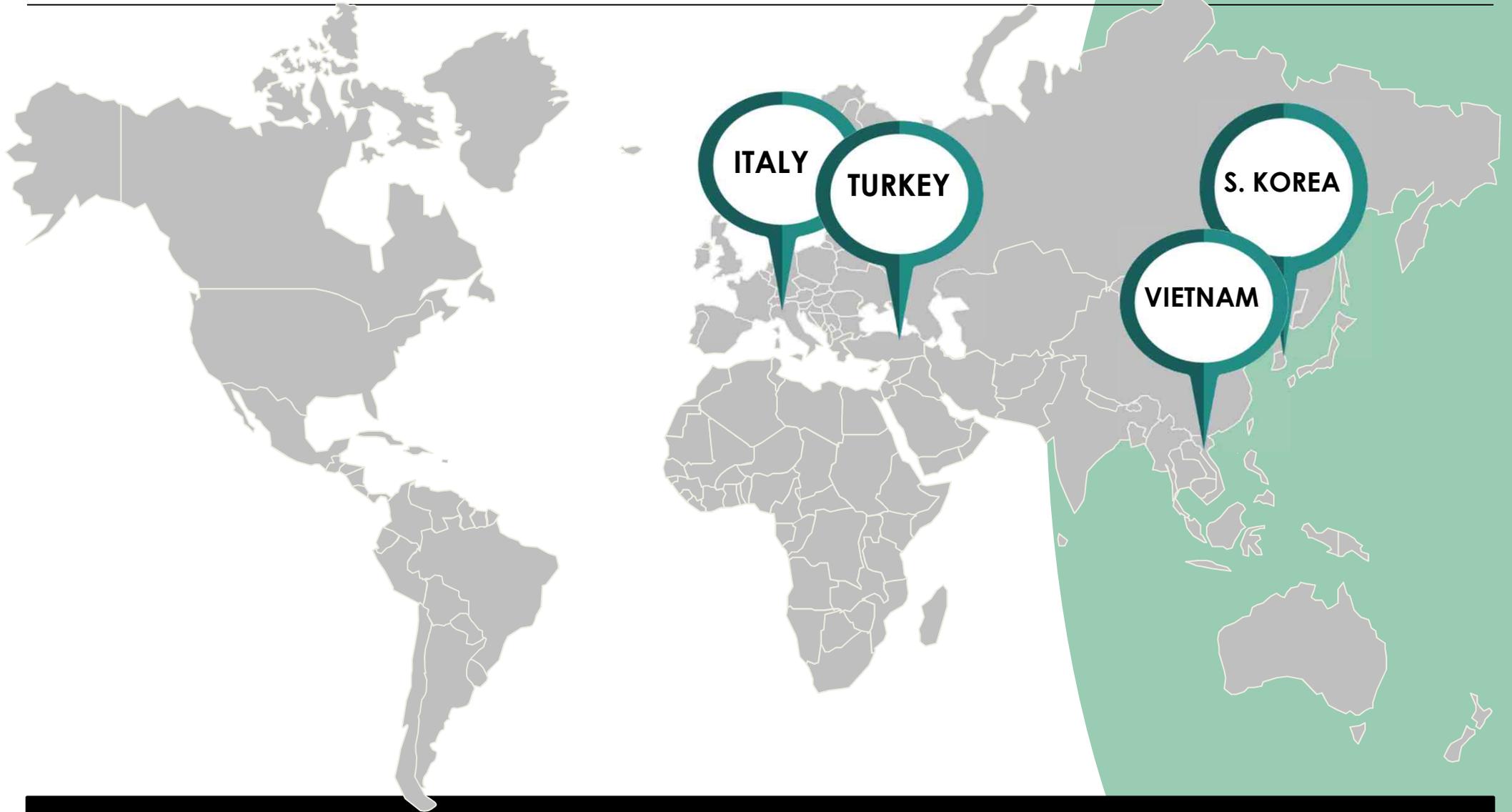


CURRENT LOCATIONS



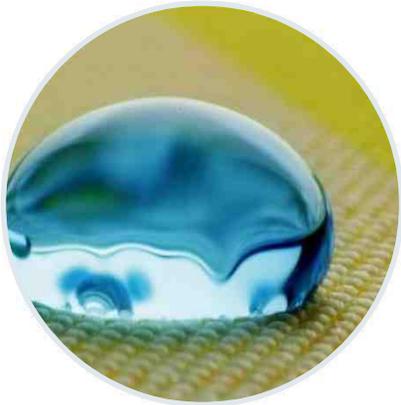


NEXT LOCATIONS





FUTURE



Functionality

The dye-ox will be able to be used for multiple functionalities, finishes, pre-setting and more. All-in the same machine'



Applications

The dye-ox is now dyeing polyester. The future will be nylon, cotton and yarn-dyeing. All-in the same machine.

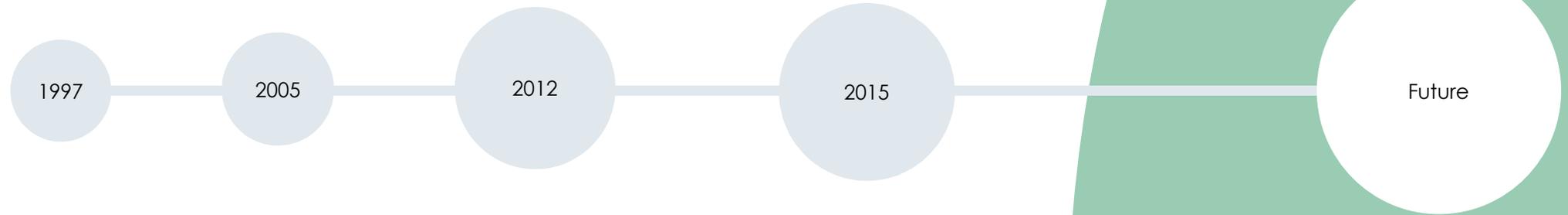


Colours

Dyecoo is working closely together with worldwide dye-stuff suppliers to develop the biggest colour range possible'



EVOLUTION



No Compromise



CUSTOMER COLLABORATION

Growing together



Thanks
you!



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