

DyeCoo®

NO  
COMPROMISE



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

## A NEW STANDARD

A revolution in textile processing technology



DyeCoo

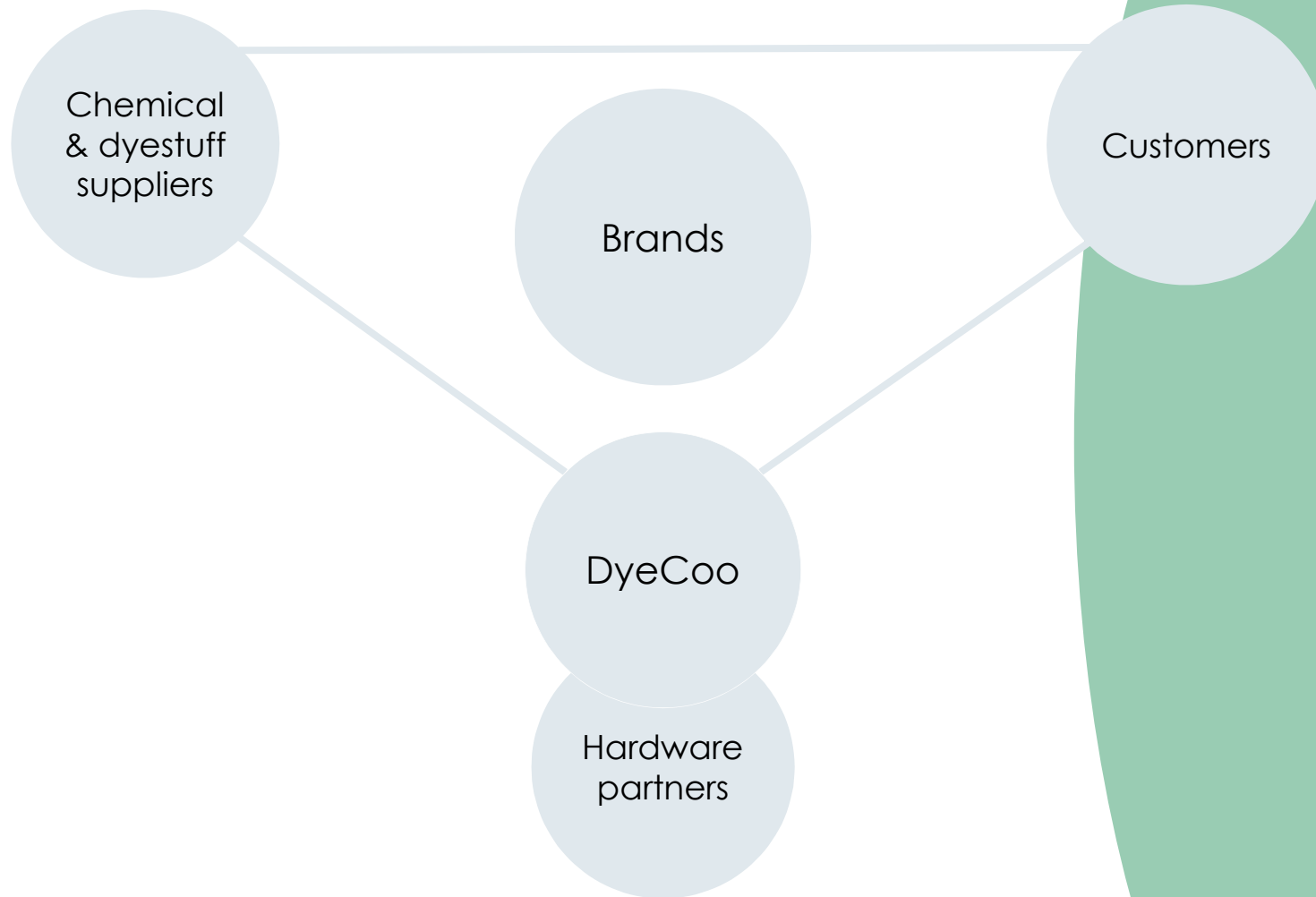
**OUR TECHNOLOGY  
DOES NOT COMPROMISE  
BETWEEN SUSTAINABILITY  
AND PROFITABILITY**

DyeCoo is the world's first supplier of water-free & process-chemical-free dyeing technology. Its revolutionary CO<sub>2</sub>-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 CO<sub>2</sub>-based technology will replace water-based dyeing technology around the world, setting *THE NEW STANDARD* in the textile industry.



# COLLABORATIONS





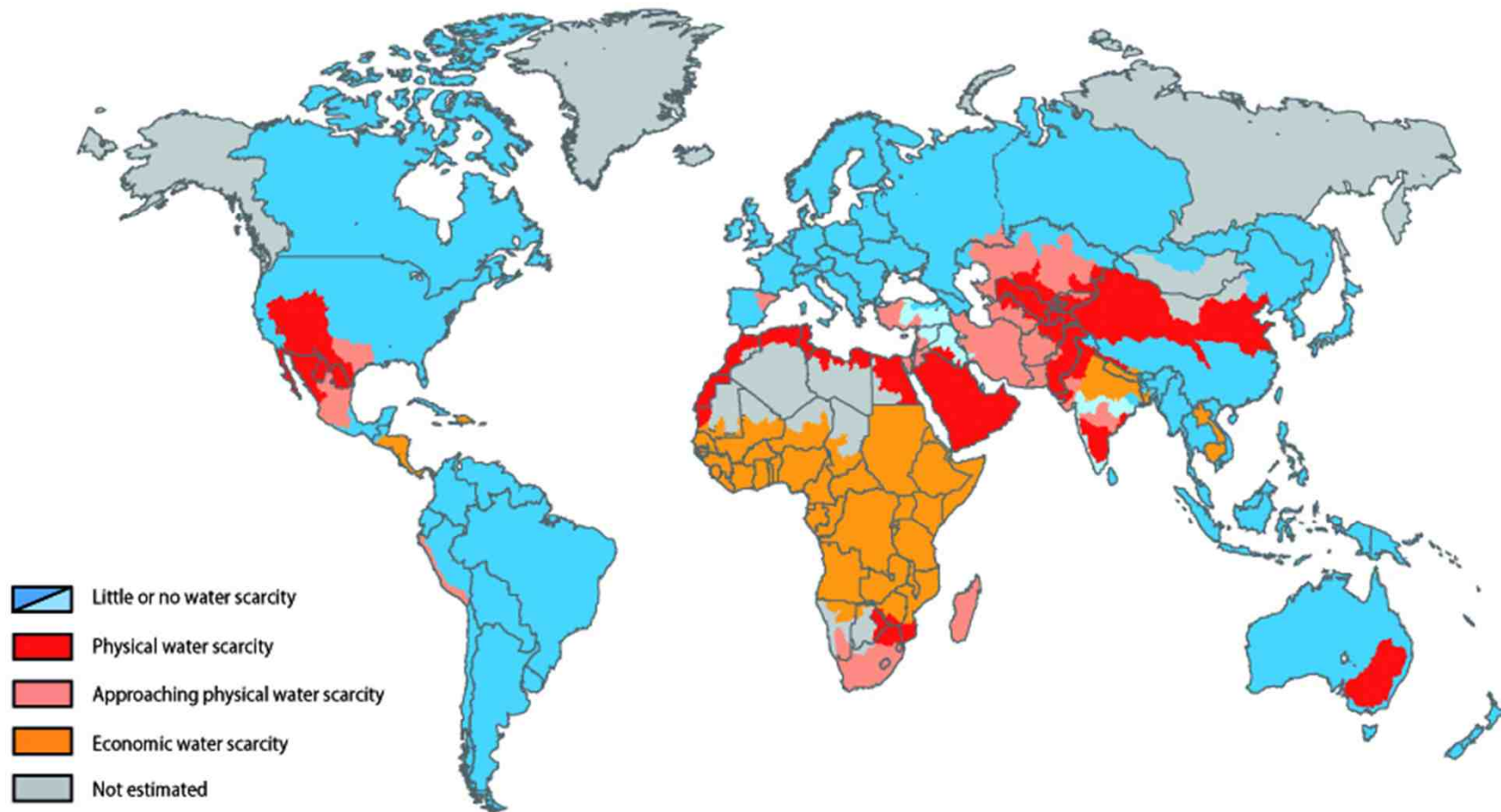


# WHY?



No Compromise

## Areas of physical and economic water scarcity



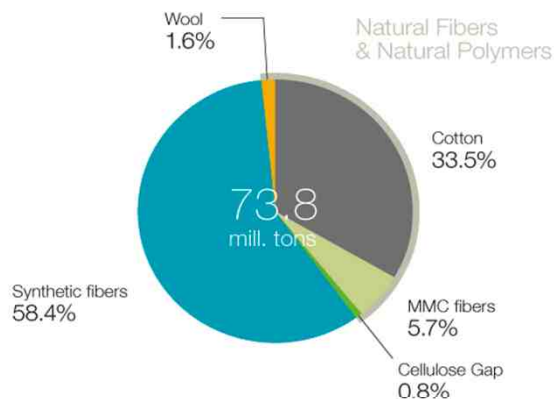
Source: IMWI report, Insights from the Comprehensive Assessment of Water Management in Agriculture, 2006 / p8



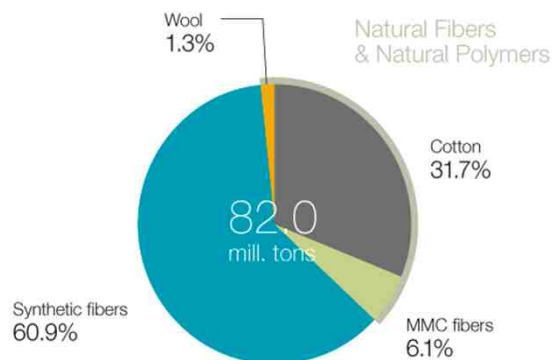
# WORLD FIBER PRODUCTION

Global fiber market 2010

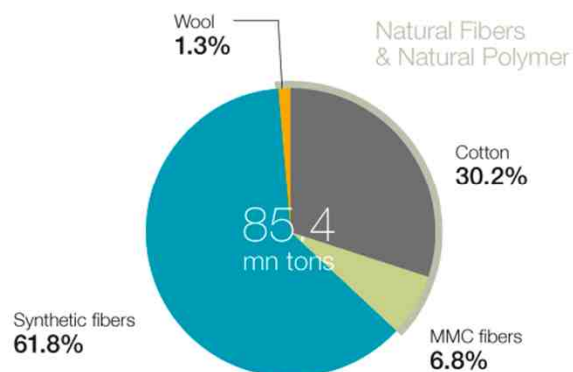
total fiber demand: approx. USD 150 bn.



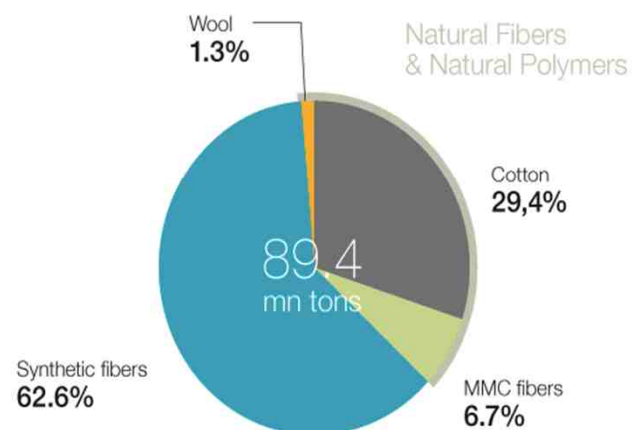
Global fiber market 2012



Global fiber market 2013



Global Fiber Market 2014







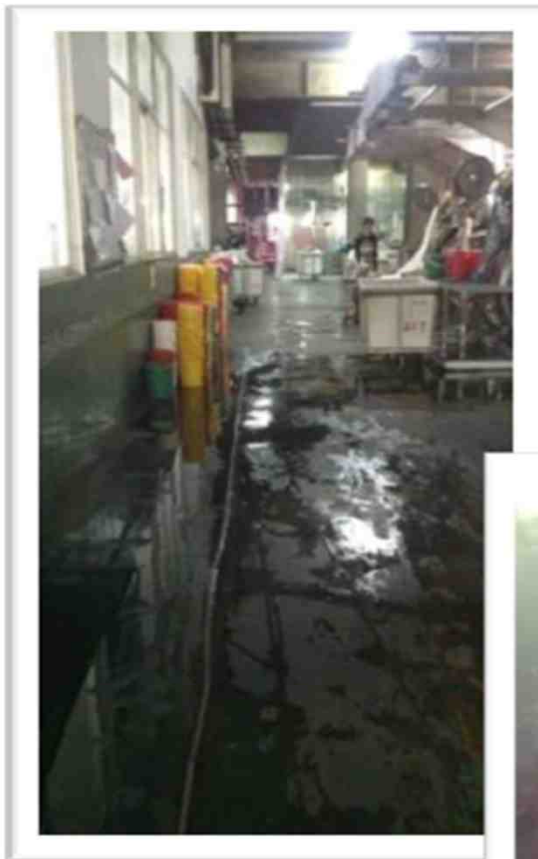
# DYEHOUSE



No Compromise

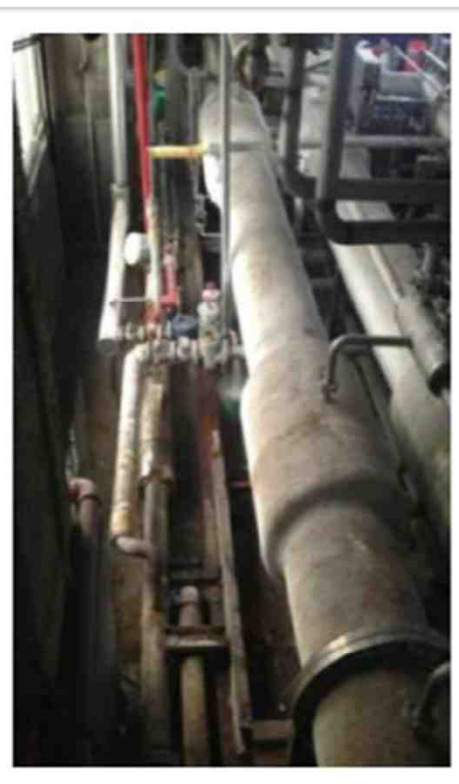


# DYEHOUSE TODAY



**WET**

**HUMID**



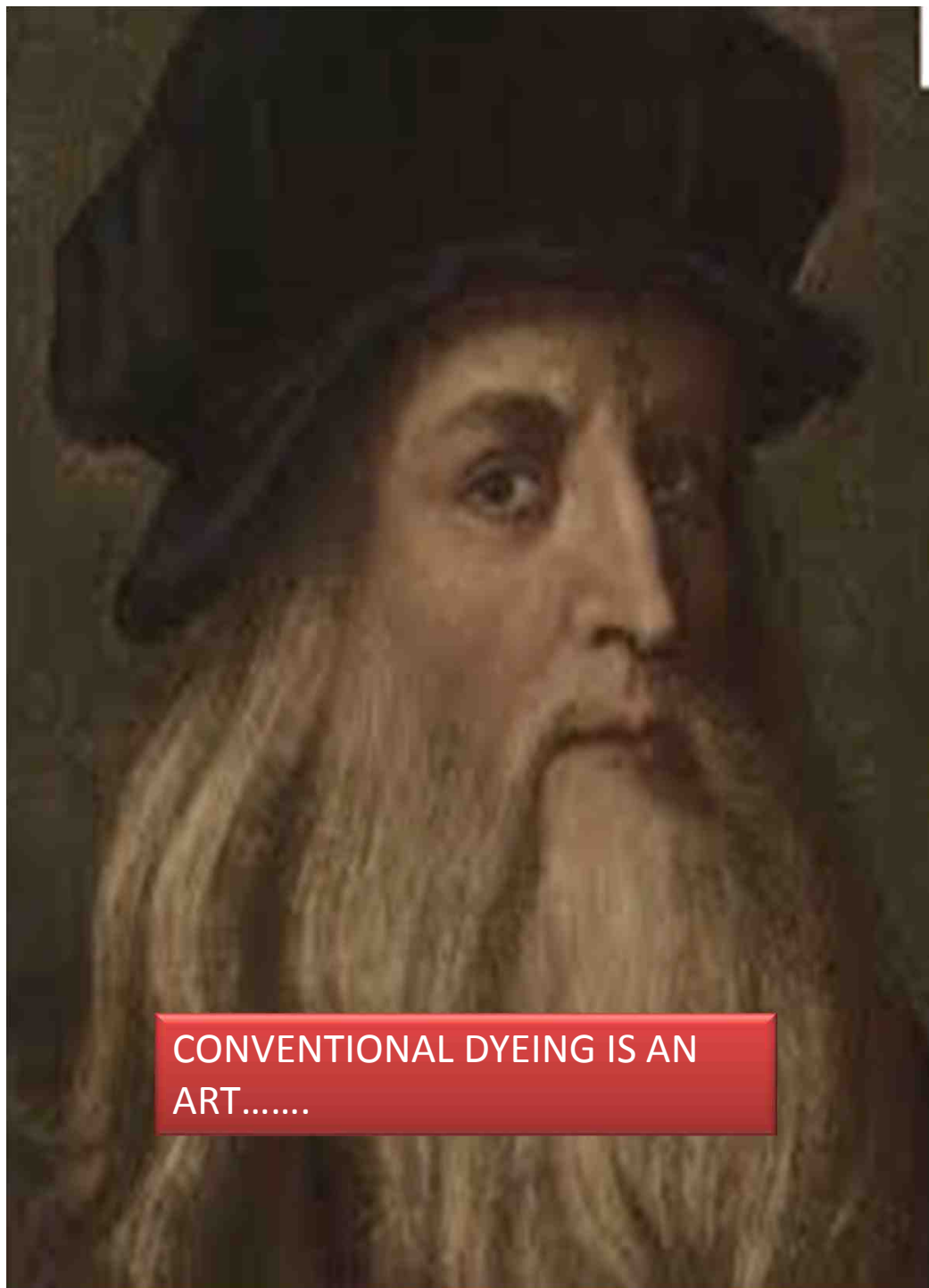
**RUSTED**

**BULK  
CHEMISTRY**

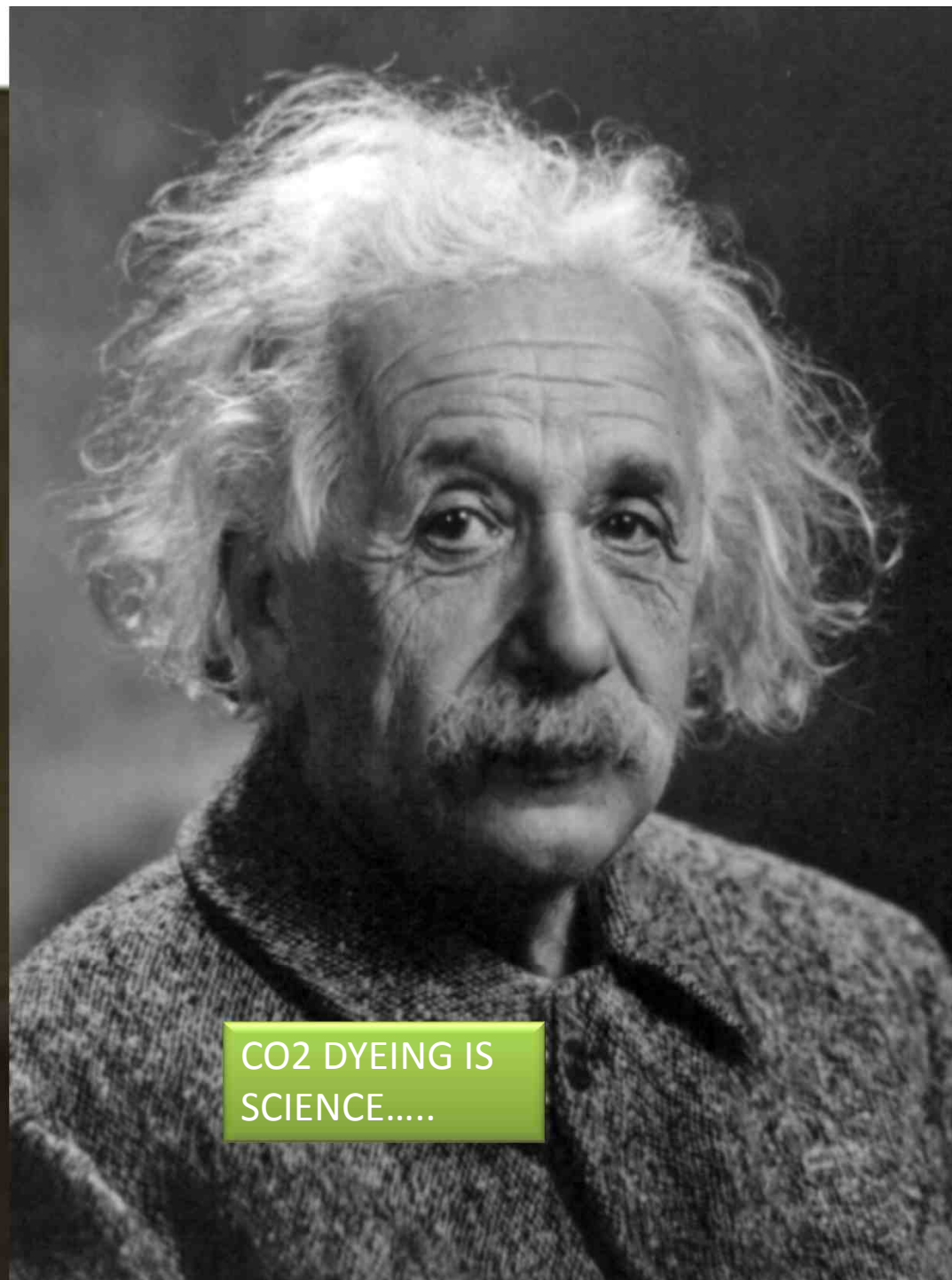


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CONVENTIONAL DYEING IS AN  
ART.....



CO<sub>2</sub> 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



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# WATER FREE DYEING

- # Uses supercritical CO<sub>2</sub>
- # Zero water
- # Zero waste water
- # Zero processing chemicals
- # Reduced energy
- # Fabric exits dry





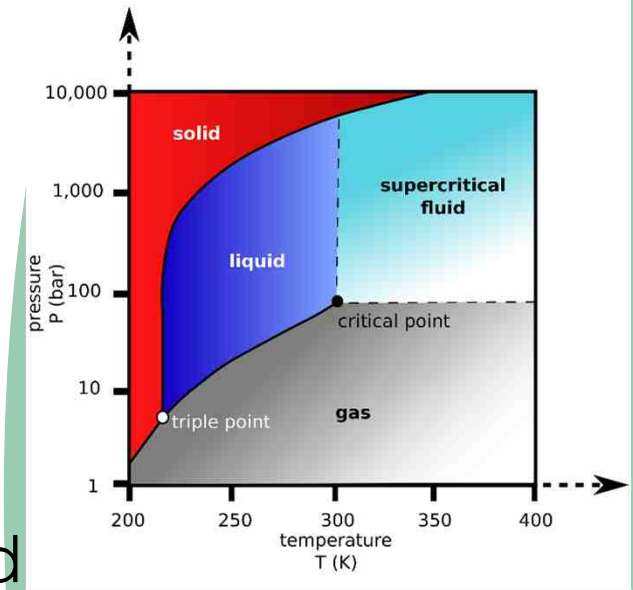
# ECONOMICAL BENEFITS

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



# SUPERCritical CO<sub>2</sub>

- # 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*)





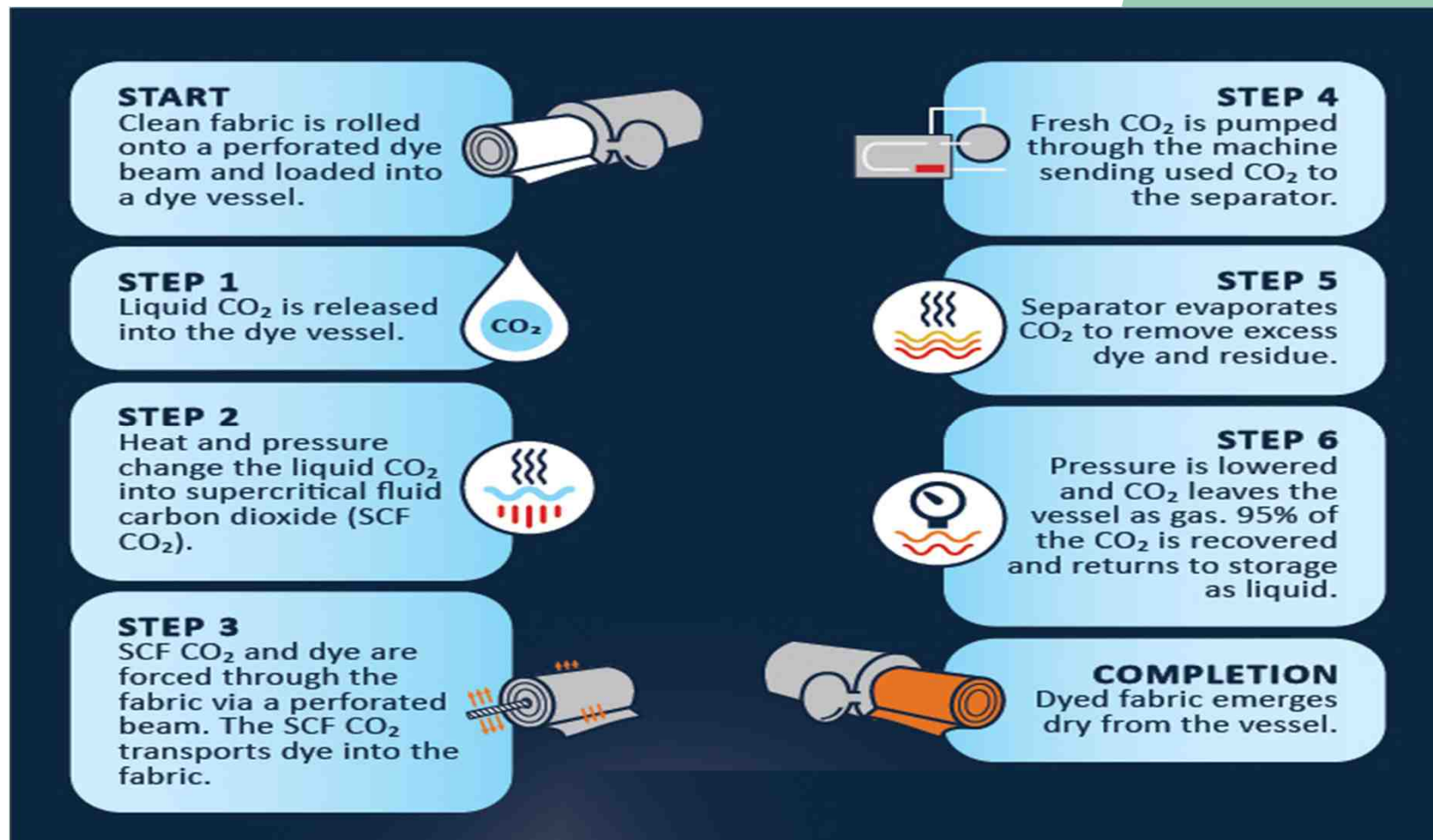
# CO<sub>2</sub> DYEING ADVANTAGES

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- # 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



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# COLOR MATCHING/LAB-DYES



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

[dyecoo.com](http://dyecoo.com)

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# BRANDS & PRODUCTS

A promotional image for the Nike ColorDry Polo. It features a bright yellow polo shirt with a green Nike swoosh on the chest, set against a background of a yellow powder explosion. 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, there are two dark rectangular buttons with white text: "SHOP" and "LEARN MORE".

**SHOW  
YOUR ALLEGIANCE**

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

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



# BRANDS & PRODUCTS



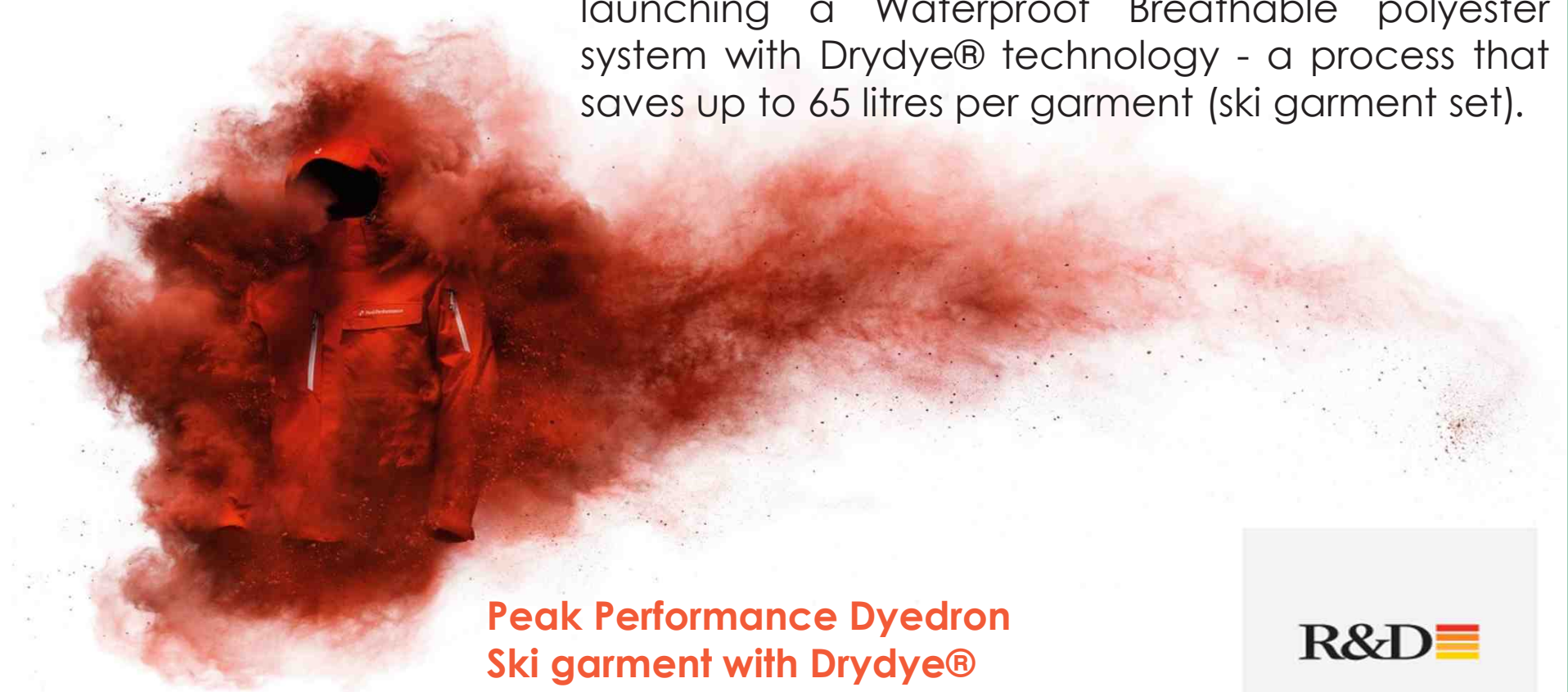
No Compromise





# 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).

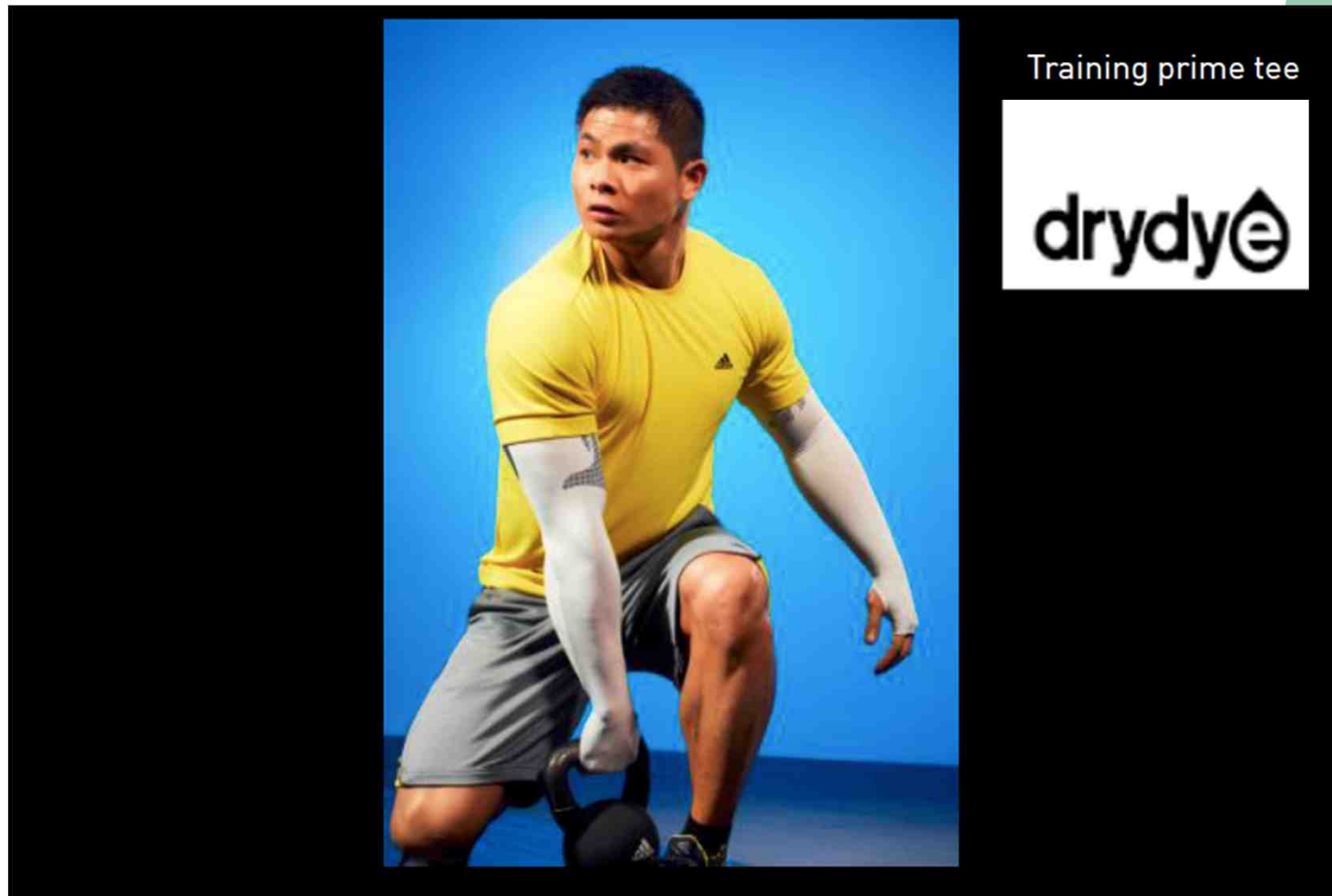


**Peak Performance Dyedron  
Ski garment with Drydye®**

R&D 



# BRANDS & PRODUCTS



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# SAFETY





# SAFETY

*Assurance 1*

## CERTIFICATIONS

Certified by  
Veritas and  
Lloyd's.

*Assurance 2*

## MACHINE

CO<sub>2</sub> 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 verantwoording 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.*

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

**Aangewezen Aangemelde Keuringsinstelling / Notified Body**  
Rapportage BV / Report number BV  
BV.Amf.4.11.1491/AR/001  
Naam / name  
Adres / address  
Datum / date  
Plaats / place  
Naam ondertekenaar / undersigned by  
Functie ondertekenaar / function

**Handtekening / signature**  
**Stempel / Stamp**

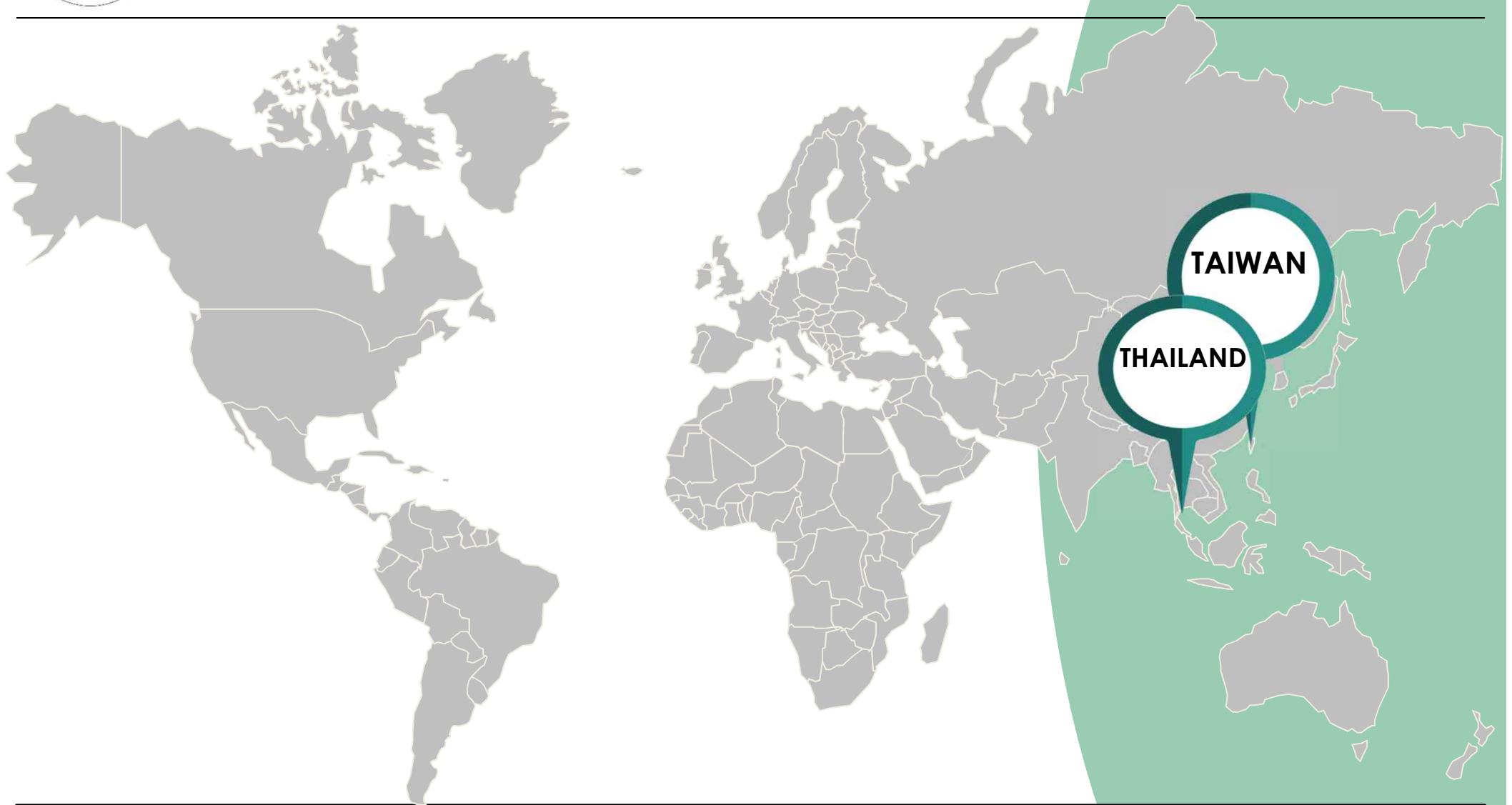
**BUREAU VERITAS**  
1828

**BUREAU VERITAS**  
Inspection & Certification the Netherlands B.V.  
Computervweg 6-2821 AB Amersfoort  
Jan. 05, 2012  
Amersfoort  
R. Ong A Kwana  
Sr. Inspector 1528

INS-PED-F24 (rev 05)

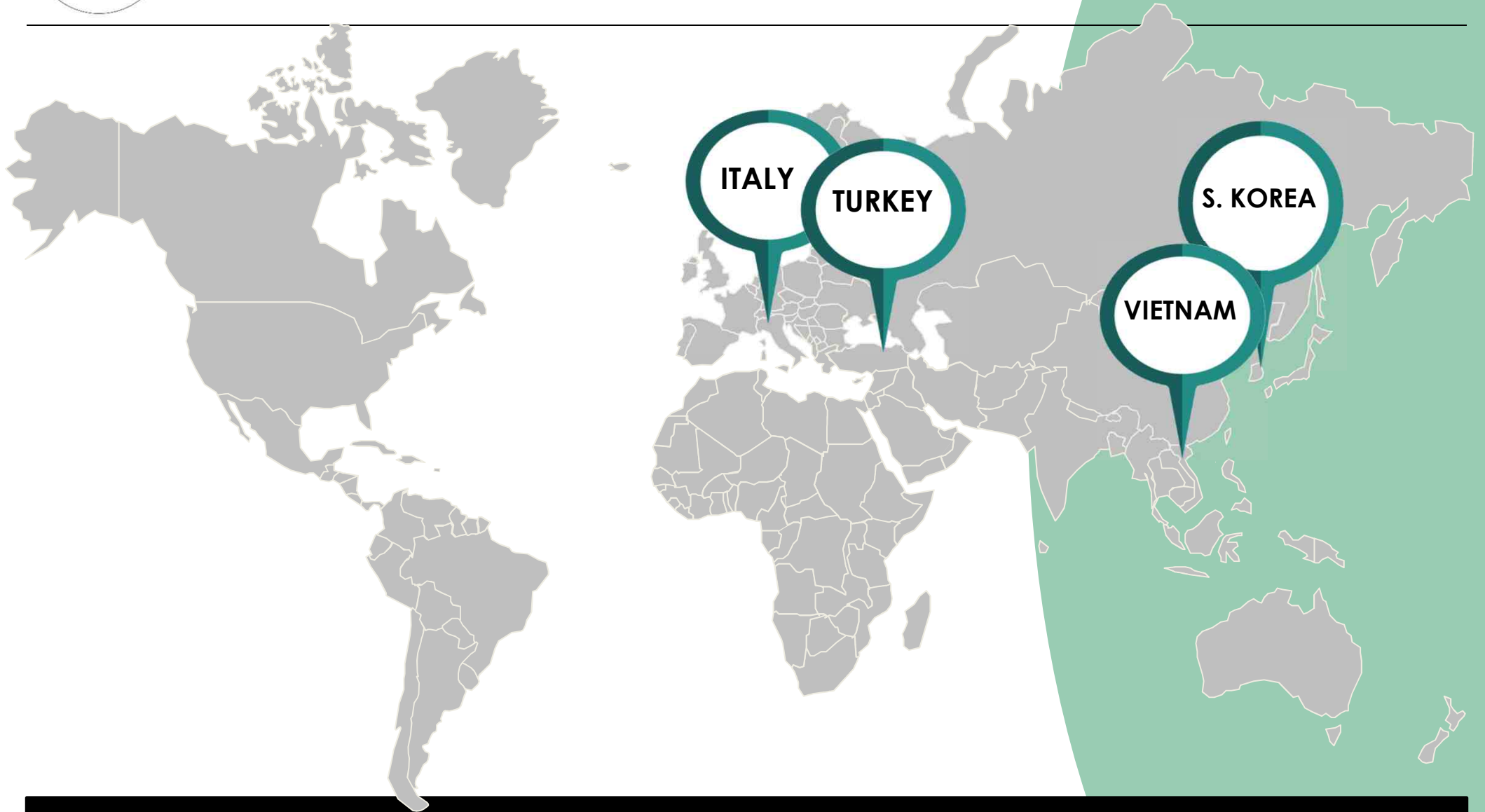


# CURRENT LOCATIONS



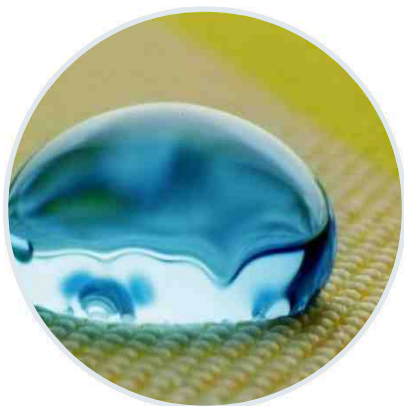


# NEXT LOCATIONS





# 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.

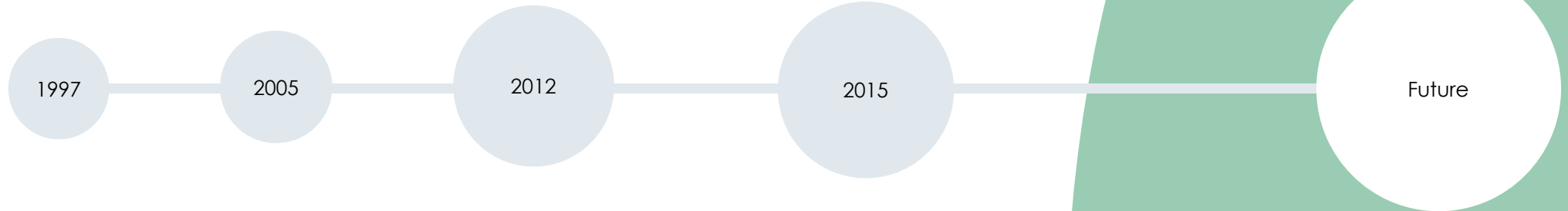


## **Colours**

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



# EVOLUTION



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# CUSTOMER COLLABORATION

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Growing together



Thanks  
you!

The logo consists of the word "DyeCoo" in a sans-serif font, with the "C" in blue and the "oo" in red. It is enclosed in a white circle with a thin grey border.

DyeCoo®

The tagline "NO COMPROMISE" is written in a bold, sans-serif font inside a white circle with a thin grey border. A vertical line extends from the top of the circle to the top edge of the page.

NO  
COMPROMISE

A vibrant explosion of multi-colored powder (red, orange, yellow, green, blue, purple) is shown on the left side of the image.

THE WORLD'S FIRST WATER AND  
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Several pieces of brightly colored fabric (red, orange, yellow, green, blue, purple) are shown on the right side of the image, appearing to be in motion or draped.

Main office  
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Phone: 31 (0)294 41 00 25, Email: [info@dyecoo.com](mailto:info@dyecoo.com)

**dyecoo.com**