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# Intertek Textile Services

## Solutions for the Textile Industry

April 2015

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Intertek Consumer Goods - Softline



1. Definition Sustainability
2. Detox: how everything began
3. How to build a sustainable Detox-house
4. Benefits and Outlook

## "Nachhaltende Nutzung" – ein Geschenk an die Welt

Das heutzutage nahezu überall geforderte Prinzip der „Nachhaltigkeit“ hat seine Ursprünge im frühen 18. Jahrhundert. 1713, also vor genau 300 Jahren, wurde „nachhaltende Nutzung“ als Begriff von dem sächsischen Oberberghauptmann Hans Carl von Carlowitz in seinem für die Forstwirtschaft und Kameralistik grundlegenden Werk „Sylvicultura oeconomica oder Hauswirthliche Nachricht und Naturgemäße Anweisung zur Wilden Baumzucht“ erstmals eingeführt. Von Carlowitz fordert eine „nachhaltende“ Waldbewirtschaftung, bei der nicht mehr Holz geerntet wird als auch wieder nachwächst.



*Der sächsische Oberberghauptmann Hans Carl von Carlowitz, der Begründer der Nachhaltigkeit*

Source:  
[www.forstwirtschaft-in-deutschland.de](http://www.forstwirtschaft-in-deutschland.de)

1

<http://www.epa.gov/sustainability/basicinfo.htm>

2

<http://oxforddictionaries.com/definition/english/sustainable>

3

<http://www.sustainablemeasures.com/node/35>

## What is Sustainability?



The name sustainability is derived from the Latin *sustinere* (*tenere*, to hold; *sub*, up). *Sustain* can mean "maintain", "support", or "endure".

"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

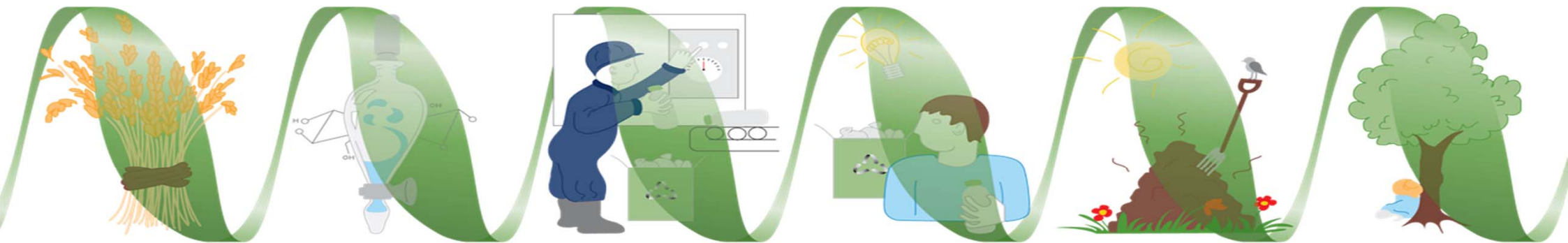
Bruntland Report for the World Commission on Environment and Development (1992)

There is no universally agreed definition on what sustainability means. There are many different views on what it is and how it can be achieved. The idea of sustainability stems from the concept of sustainable development which became common language at the World's first Earth Summit in Rio in 1992.

Source:  
[www.globalfootprints.org](http://www.globalfootprints.org)

# The Helix of Sustainability

## The Helix of Sustainability



Plants grow, making sugars, starches, oils, cellulose and other complex molecules from simple raw materials, mostly water, CO<sub>2</sub> and sunshine.

In addition to harvesting food, people extract fuel and base materials for industry and commerce.

Manufacturers make wares, measuring profitability in environmental and social terms as well as financial.

The end-user reuses and repairs, only recycling after as long a useful life as possible.

At the end of its life the article decays, reducing large complex molecules to simple raw materials by the action of bacteria and fungi - composting

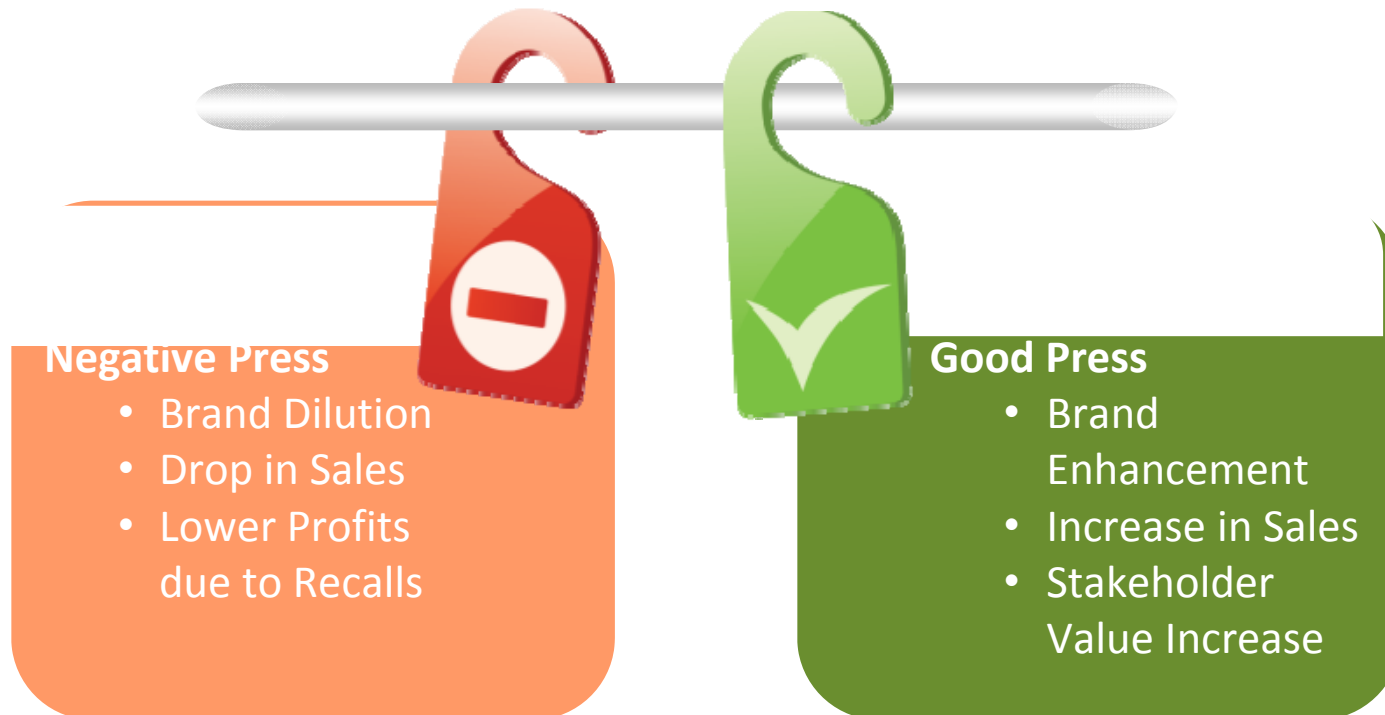
Plants grow, making sugars, starches, oils, cellulose and other complex molecules from simple raw materials, mostly water, CO<sub>2</sub> and sunshine.

*“ NGOs continue to raise the profile of sustainability, government legislation is also in place.*

*I want to comply with the numerous environmental and social criteria, but how can I manage my costs at the same time so I can balance people, profit, product as well as the planet? “*



Well known brands, discounters and retailers are always in focus of NGOs and the press who have a significant influence on the market





## Sustainable Development Protects the General Interest of:

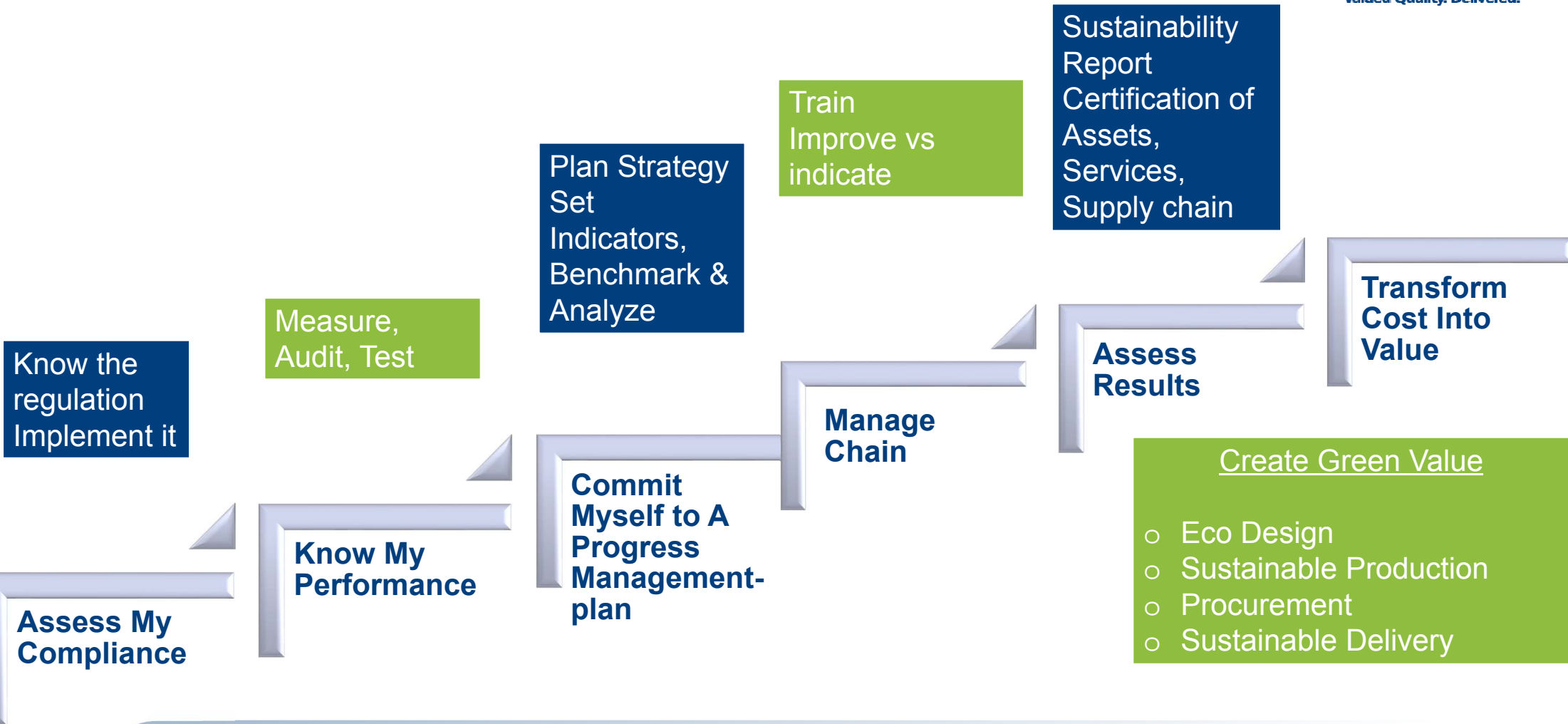


The  
Environment

Society

Economic  
Position

# Sustainable Economy Staged Implementation



## Detox: how everything began

- On July 13th, 2011 Greenpeace released the first report called “Dirty Laundry”



Source: [www.greenpeace.org](http://www.greenpeace.org)

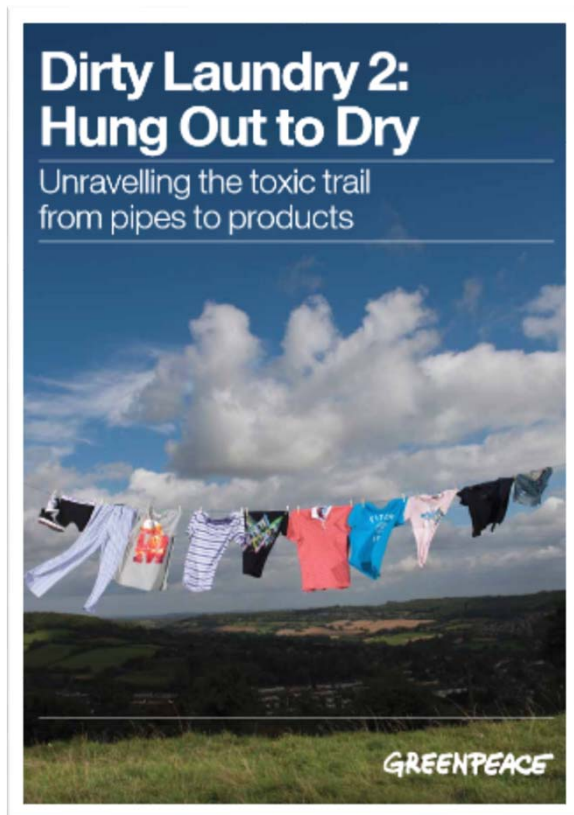
## Conclusion of the 1<sup>st</sup> Dirty Laundry Report



- Toxic metals within the European Limits
- No comparison of incoming and outgoing water
- Max. PFOA concentration: 0.014 µg/l.
- Max. PFOS concentration: 0,009 µg/l
- The German Umweltbundesamt (Federal Environment Agency, the German equivalent to the US EPA) published a limit value for **drinking water** (lifetime intake) of 0,3 µg/l for PFOA + PFOS
- Nonylphenol: 14 µg/l (Groundwater in Germany/Bavaria: 28 µg/l median in 51 monitor points)

# Dirty Laundry

- In August 2011 and March 2012, two reports followed



Source: [www.greenpeace.org](http://www.greenpeace.org)

# Toxic Threads

- Afterwards, Greenpeace published another set of reports called “**Toxic Threads**” intensifying the message conveyed.



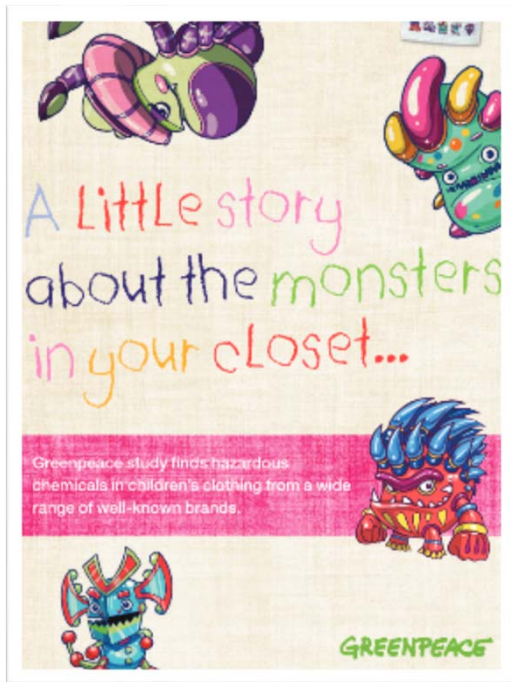
Source: [www.greenpeace.org](http://www.greenpeace.org)

# Greenpeace Focusing on Children Wear



- 13<sup>th</sup> of January, 2014, “ **A little story about the monsters in your closet**” was released

- Followed by “**A Little Story about a Fashionable Lie**“ in February 2014, focusing on luxury brands



## Sportswear Gets Attention

- In May 2014, “**A Red Card for sportswear brands**“ is issued. All articles tested were manufactured and sold as part of the FIFA World Cup Tournament in Brazil



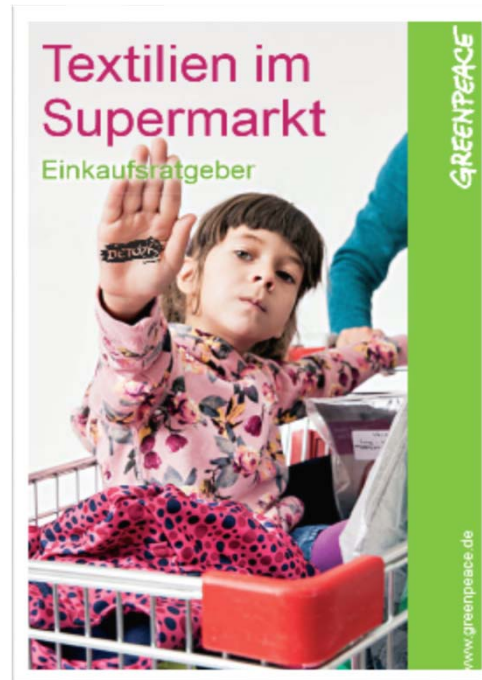
Source: [www.greenpeace.org](http://www.greenpeace.org)



## Textilien im Supermarkt / *Textiles in the Supermarket*



- The Shopping Guide “**Textilien im Supermarkt**” / ***Textiles in the Supermarket*** follows in October 2014



Source: [www.greenpeace.org](http://www.greenpeace.org)



Source: [www.greenpeace.org](http://www.greenpeace.org)

### **Feb 2013: Greenpeace: China acknowledges 'Cancer Villages', unveils 'Breakthrough' Chemical Plan**

- > Greenpeace hailed China's commitment to clean up chemical pollution with a breakthrough chemical management plan that acknowledges for the first time the existence of 'cancer villages' and will blacklist 58 chemicals and have an elimination chemical list by 2015.
- > "China has been the world's largest chemical producer since 2010. The Plan indicates that the massive pollution found across the country, caused by large-scale chemical production and the release of hazardous chemicals, urgently needs to be tackled," said Yixiu Wu, Toxic Campaigner for Greenpeace East Asia based on Beijing.
- > "It's our hope that this announcement is quickly implemented and enforced – about half of China's rivers are not suitable for domestic use, and around 20% are deemed useless even for industrial purposes. We simply cannot wait any longer."
- > The Five Year Plan highlights the risks that toxic chemicals have posed to the nation's environment and health.
- > "The setting up of a Black List for priority actions, which includes DEHP, BPA and Nonylphenol (NP) indicates strong political will. But most importantly, it sends a clear message to industry that these hazardous chemicals, which are banned in various other parts world, will have no place in the future of China," said Wu.

## ASIA ONE: CHINA STRUGGLE TO MEET 2015 ENVIRONMENT GOALS

Posted by amyhuang on Jan 01, 2014 in Environment and social



A report submitted to China's parliament stated that **the country will struggle to meet the goals it set itself for reducing pollution, cut greenhouse gas and increase usage of green energy by 2015**, according to Asia One.

The report, which covers the 2011-2012 period, said faster-than-expected economic growth was to blame for China's failure to meet environmental targets ranging from energy use to nitrogen oxide emissions. This report has come into the spotlight following Beijing and Shanghai reporting hazardous smog earlier in 2013. While Beijing has promised to put an end to its "growth at all costs" economic model and has already introduced new policies aimed at reining in polluting industries, cutting coal use and reducing traffic, it will miss its target based on the country's current progress.

## THE DETOX CATWALK

### IT'S TIME TO FIND OUT WHICH CLOTHING COMPANIES ARE WALKING THE TALK TO A TOXIC-FREE FUTURE.

Over the past 24 months hundreds of thousands of activists, fashionistas, bloggers and consumers came together to call for fashion without pollution. From record-breaking strip teases to social media storms, people power brought about Detox commitments from 18 major textile companies. Take a [look down the runway](#) at the story so far.

Now it's time to see who is acting on their commitments, setting a new Detox trend in the industry, who is holding us back with nothing more than ineffective paper commitments and greenwashed promises and who is lagging behind the pack, unwilling to kick their toxic addiction and commit to Detox.

Explore the Detox Catwalk to find out which companies are leading a transparency revolution across their supply chains, which have gone above and beyond to eliminate hazardous chemicals from their clothes and which companies are trying to get away with doing the bare minimum.

**Leaders** - Detox committed companies leading the industry towards a toxio-free future with credible timelines, concrete actions and on-the-ground implementation.

**Greenwashers** – Detox committed companies failing to walk the talk, masking ineffective actions with paper promises and weak commitments

### TOXIC FREE FASHION BY 2020

In order to bring about a toxio-free future we call on companies to adopt and implement an individual Detox solution, committing to phase out the use and release of all toxic chemicals from their global supply chain and products by 1 January 2020.

This should be based on three fundamental principles:

#### 1. Prevention and Precaution

Taking preventative action towards the elimination of hazardous chemicals in the face of scientific uncertainty.

#### 2. Right to know

Acting with transparency on behalf of communities living by the discharge pipes and consumers who all have a right to know about the hazardous chemicals being released into our waterways.

#### 3. Elimination

Eliminating all releases of toxic chemicals and recognising that there are no environmentally safe levels for hazardous substances.

## Achievements of Detox Campaign



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### Public Commitment

The Campaign has been able to secure public commitments from several international brands toward zero-discharge of hazardous chemicals (ZDHC)

### Brands

As of January 14, 19 brands have committed to zero discharge in response to the Detox campaign, namely:

## Members



- ↔ Adidas
- ↔ Benetton
- ↔ C&A
- ↔ Canepa Tessiture
- ↔ Serica
- ↔ Coop
- ↔ Esprit
- ↔ G-Star
- ↔ H&M
- ↔ Levi's
- ↔ Victoria's Secret  
(Limited Brands)



- ↔ Valentino
- ↔ Inditex
- ↔ Burberry
- ↔ Tchibo
- ↔ M&S
- ↔ Mango
- ↔ Primark
- ↔ Nike
- ↔ Puma
- ↔ Uniqlo
- ↔ Li-Ning
- ↔ M&S
- ↔ Fast Retailing

# How to move a Sustainable Economy?



## 3 Business Drivers on Your Road Map:

- Manage business risks
- Implement efficiencies
- Create sustainable services and products

## While Benefitting from Green Economy

- Reducing costs
- Improving your image
- Enhancing performance
- Creating new sales and revenue growth

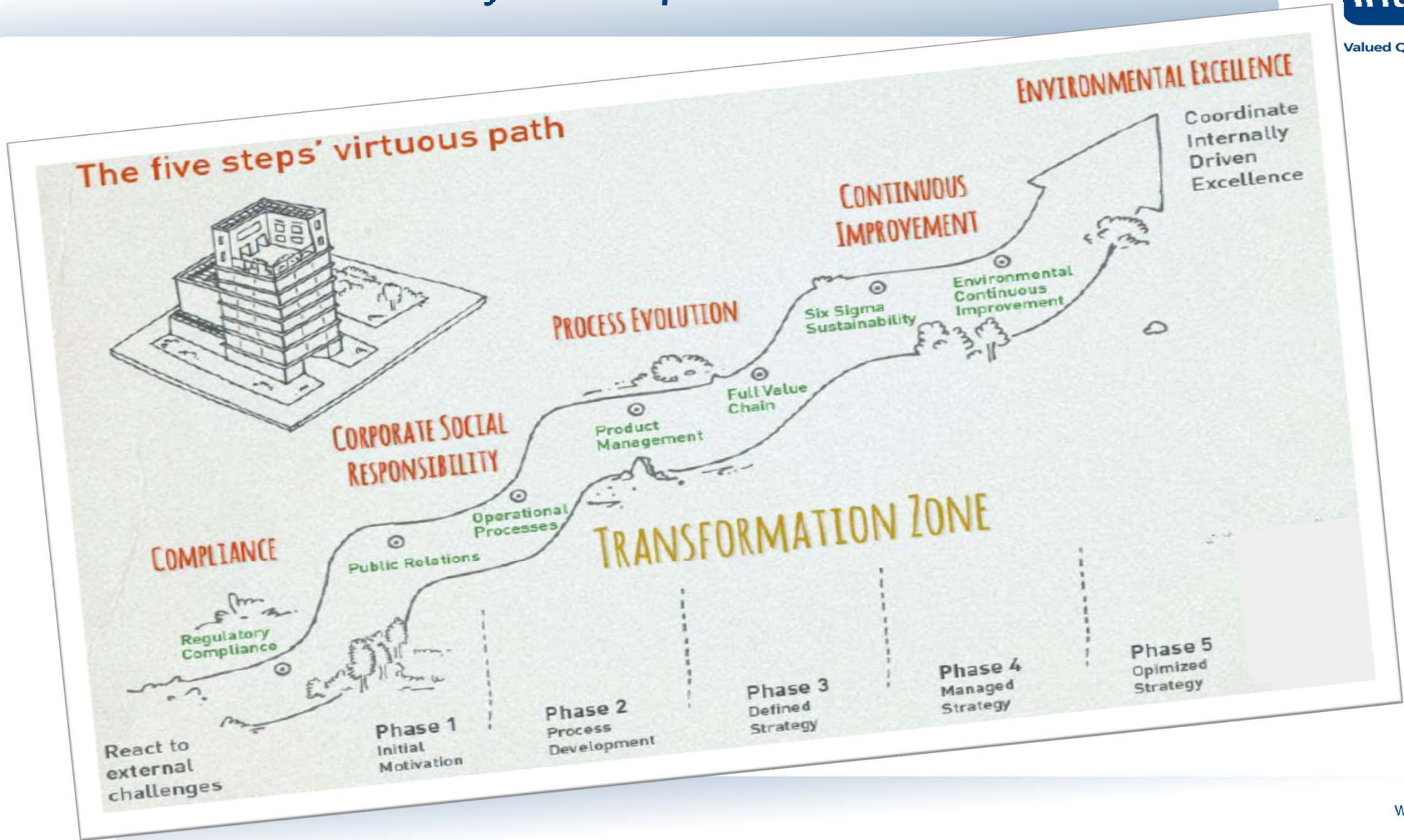




# Sustainable Economy Roadmap



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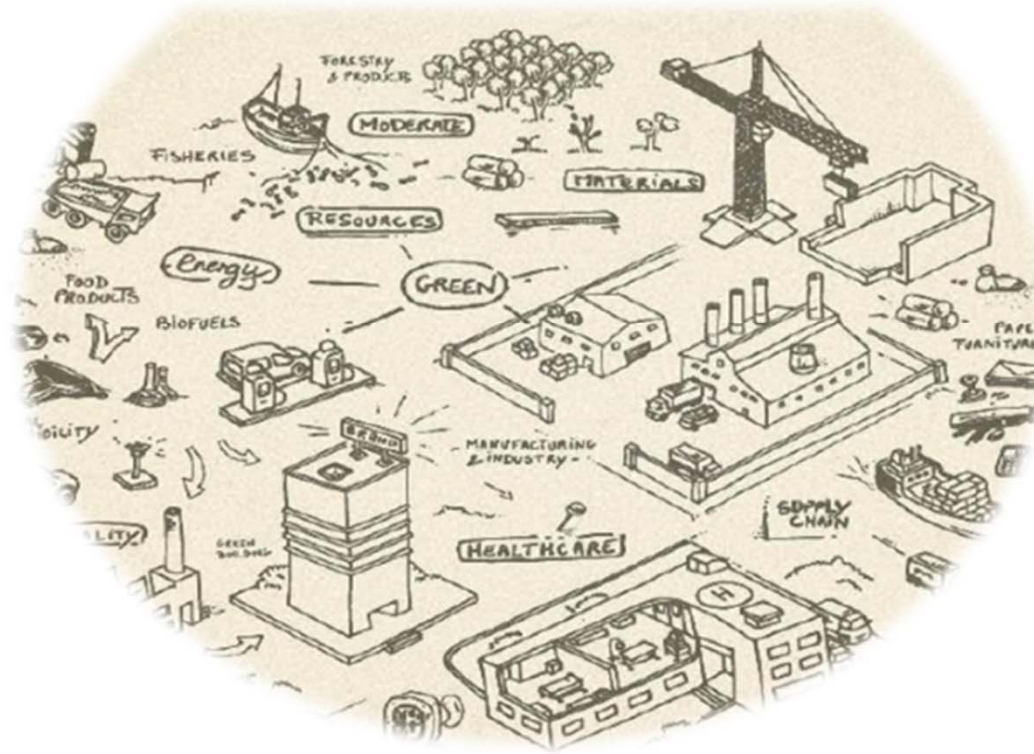


# The Sustainable Economy



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A Priority



But Where to Begin?

# How to build a Sustainable Detox House



## Background

Anyone who has ever built a house knows, how important it is to have a coordinated preparatory construction plan and a trusted partner regarding preparation and realization.

Intertek Consumer Goods has obtained expert knowledge to act as a partner of small, medium and large sized companies in order to plan and realize the solid DETOX-dream house.

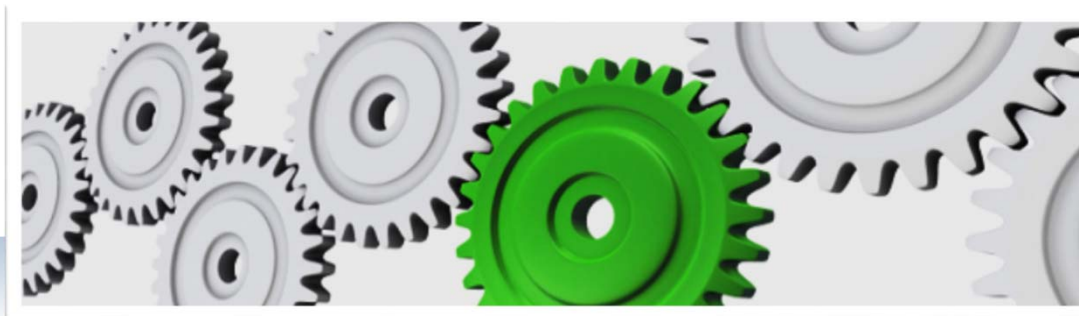
# How to build a Sustainable Detox House

## Planning

Before you start building a house, you need a good planning, e.g. property size, neighborhood, infrastructure etc.

An elementary aspect in building the DETOX-house is, to deal with the respective *supply chain*.

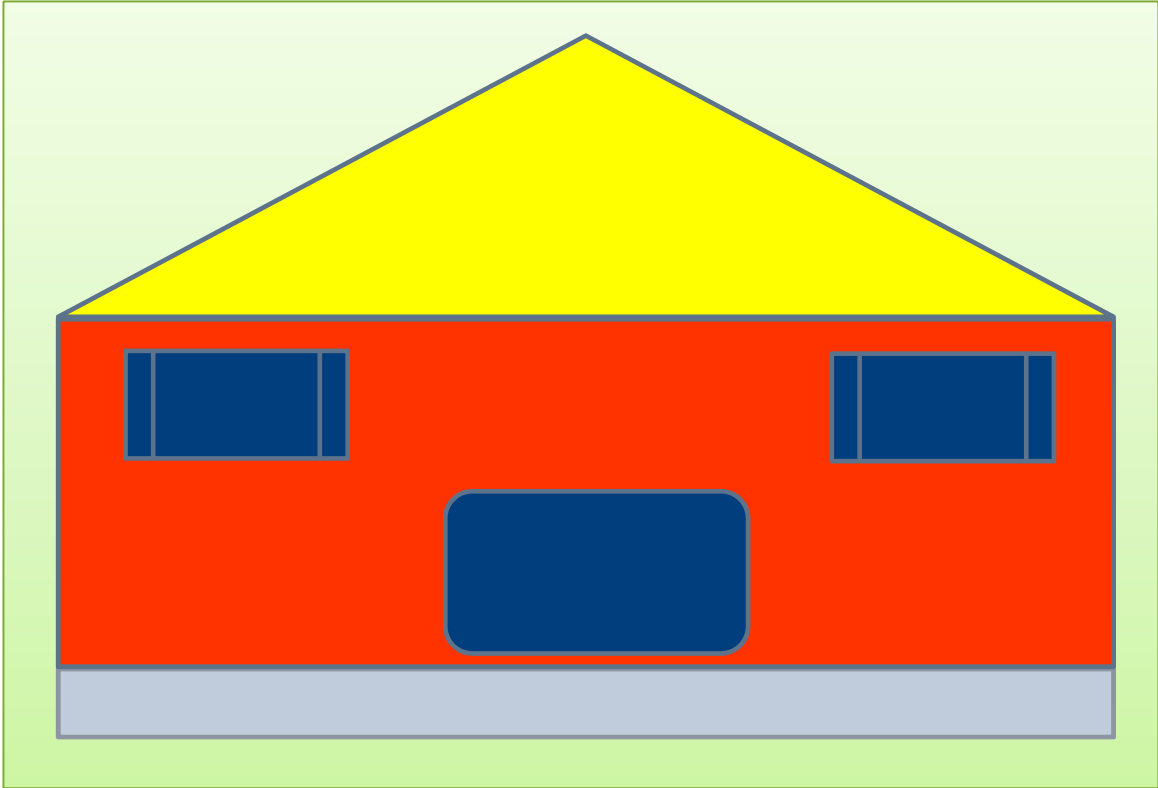
It is important to identify the “chemical relevant” partners e.g. dye factories, printing houses, laundry facilities etc. and to implement “Chemical Monitoring”.



# How to build a Sustainable Detox-Dreamhouse



<p><b>Phase 5</b> Sealing Waste Water , Sludge, Air Emission Monitoring, Calculation with the help of CIL</p>
<p><b>Phase 4</b> Doors Windows Product Control (randomly) Vendor-, Supplier, Subcontractor-Ranking</p>
<p><b>Phase 3</b> Roof Monitoring of ZDHC, RSL, MRSL, SVHC</p>
<p><b>Phase 2</b> Bare Brick Work Chemical Management Assessment Environmental Assessment Social Audits Mold Assessment</p>
<p><b>Phase 1</b> Fundament Chemical Inventory List</p>



## The Foundation



Indispensable materials, which form the foundation, are for sure, the concrete with all its DETOX-aggregates. In the DETOX-process they are called: collecting, creating, evaluating and implementing a list of used and available chemicals and mixtures (CIL).

Furthermore, the steel reinforcement is mandatory in order to pour the DETOX-foundation – the documentation of all respective suppliers as the checking and complementation of all relevant MSDS. To prevent the fissuring of the foundation while drying, we spray water on it, which refers to the maintenance (update) of the data in the DETOX-process and includes the training of all involved employees.

### The Building Shell

It is supposed to be solid and weather-resistant, shall withstand not only the daily, but also the yearly loads.

Its materials should be chosen carefully and be compatible with each other. The bricks for the DETOX-building shall consist of social audits (BSCIs) and familiar services like e.g. the consideration of safety aspects (fire protection, electrical safety, building security). The mortar for the seams is composed of Chemical Management Assessments, which serve as continuations of the construction from phase one.

Ceilings and new levels are added, in the form of “Umweltverträglichkeitsnachweisen”. The desired insulation level comes in the form of training measures undertaken and also the high DETOX quality standard, for example, mold avoidance or process optimization measures.



## The Roof

The roof truss consists of the MRSL (Manufactural Restricted Substance List), which comprise the RSL of the respective customer.

The roof tiles, which are adapted individually to the DE-TOX-house and which are made of the REACH-Compliance (SVHC), protect the DETOX-dream house from all predictable, and from many unpredictable influences.

The chimney serves as a monitoring system, consisting of different ZDHC-components, if necessary; RSL- and MRSL-parts can be added for an improved functionality



## Phase 4



### Doors and Windows



The optimization of the outer shell of the DETOX-dream house gets more attention.

The modern windows are not intended to be examined individually- thanks to optimized production processes, a complete picture of the total conformity can be gained by taking a limited number of random samples. Finally, the burglar-proofed door forms the analysis of supplier data and data of their supply chains.

## Phase 5



In order to protect the DETOX-dream house's whole facade from destructive environmental and climatic influences, it is „sealed“ with a functional, visually appealing plaster. For this purpose, the online monitoring of the discharge of harmful substances into the water, if possible, into the sewage sludge, as well as the monitoring of the air emissions are recommended, according to updated CILs.

# What the Fashion Industry Looks like after 4 Years of DETOX



## 18 Companies have committed to Detox

➤ Representing 10% of the 1.7 trillion apparel and footwear market

➤ In the EU: Several harmful chemicals have been added to a list of chemicals the EU hopes to phase out and replace with substitutes

➤ In Indonesia: NPEs will be regulated and monitored

➤ In China: PFCs, Nonylphenols and Phthalates are regulated



Source: [www.greenpeace.org](http://www.greenpeace.org)



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