

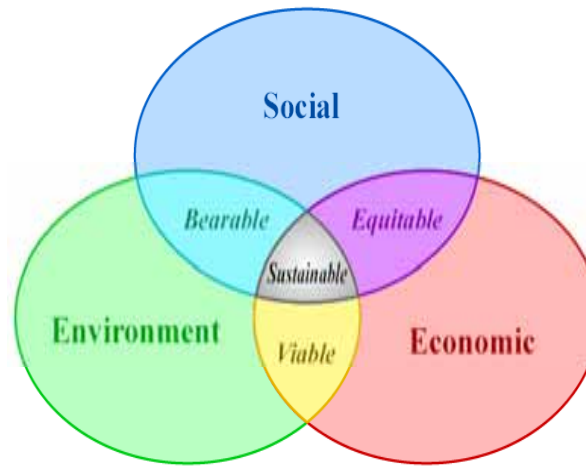


SUSTAINABILITY – *The Future Ahead*
Textile industry
Ensure a Greener Future

WHEN YOU NEED TO BE SURE



Sustainability is “the ability of an ecosystem to maintain ecological processes, functions, biodiversity and productivity into the future.



SUSTAINABILITY IS NOT A FASHION BUT The answer to a worrying situation



Our planet is suffering

- Fragility of ecosystems and depletion of natural resources,
- A growing gap between richest and poorest,
- Demographical change
- Climate change (faster than expected, extent,)



We need to find a balance



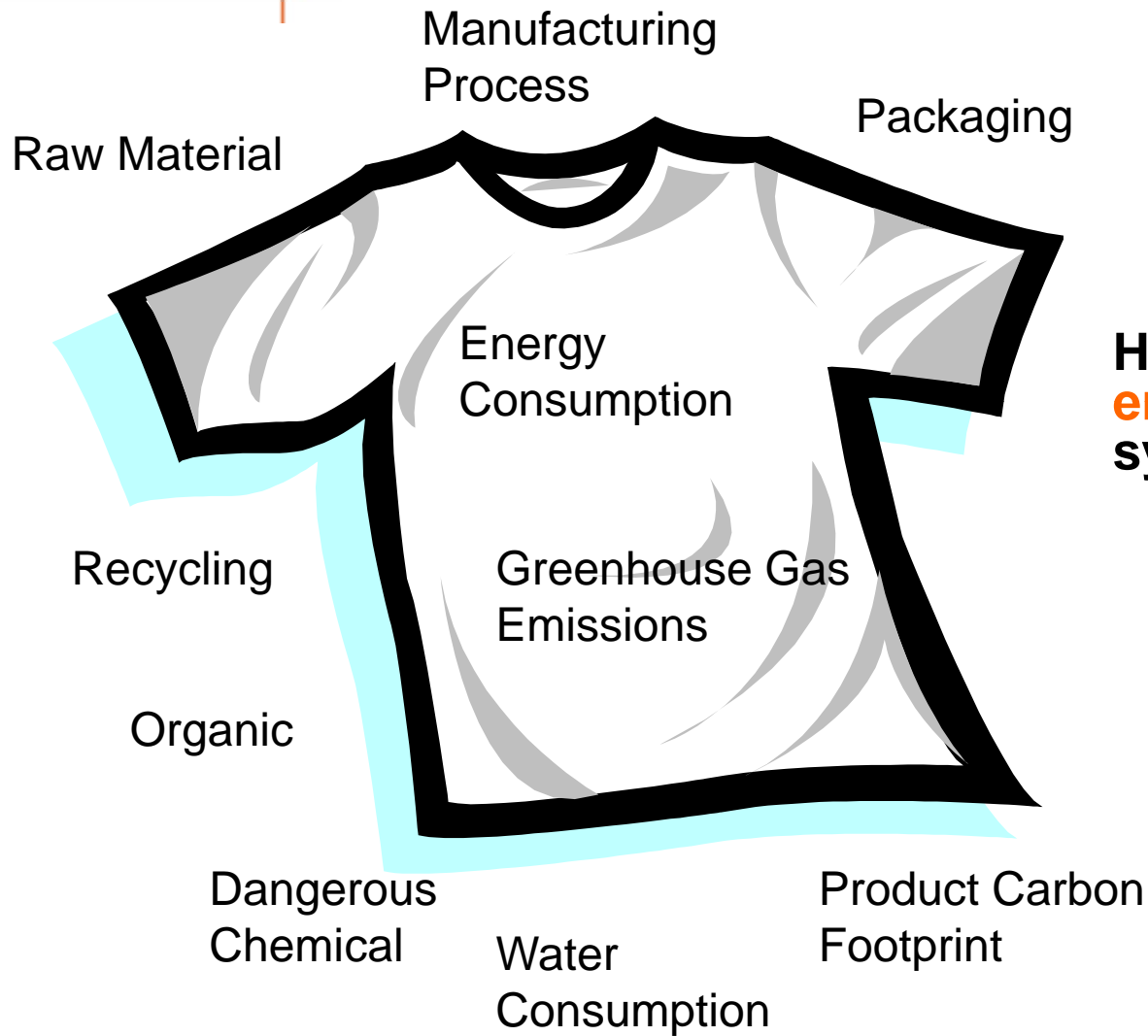
- Urgent global situation...
 - Global focus of the environmental movement is climate change and reducing emissions which contribute to global warming
 - Energy security : peak oil and lack of energy alternatives to meet demand....
- ...Worldwide
 - Mandatory emissions reporting
 - Carbon budgets and trading
- Product carbon footprint regulations and standards
 - French environmental labeling regulation – Le Grenelle Environment
 - UK PAS 2050 standard and label
 - Carbon Label in Japan
- Business initiatives
 - Casino carbon labelling
 - Tesco carbon labelling
 - Wal-Mart Sustainability Consortium



BENEFITS TO YOUR BUSINESS



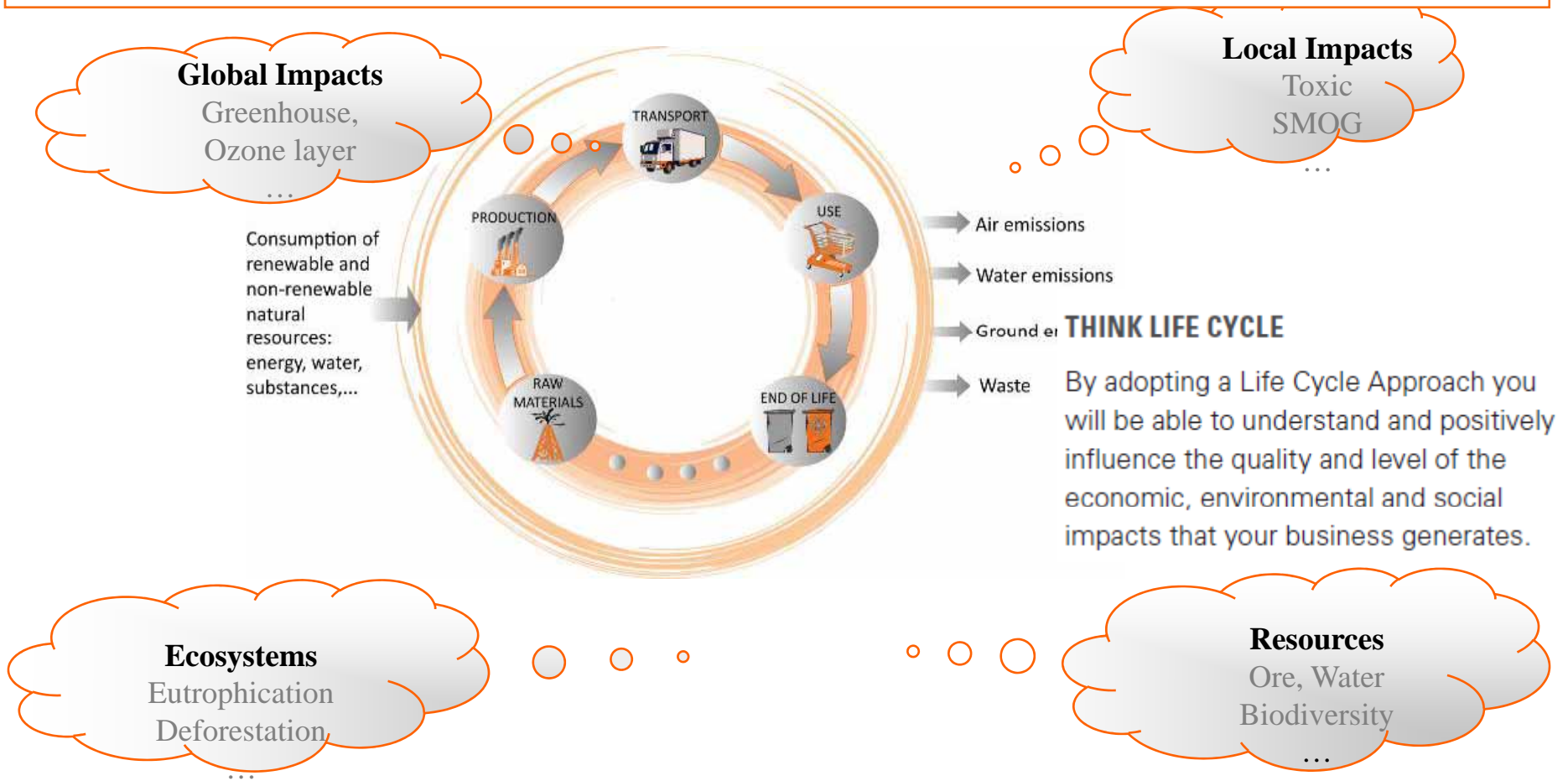
- **Anticipate** future regulatory & market environments and reduce risk to business
- Increase **energy efficiency** and **cut costs**
- **Communicate performance** to customers to enhance market competitiveness
- **Respond** to expectations of NGOs to reduce reputational risks to your brand



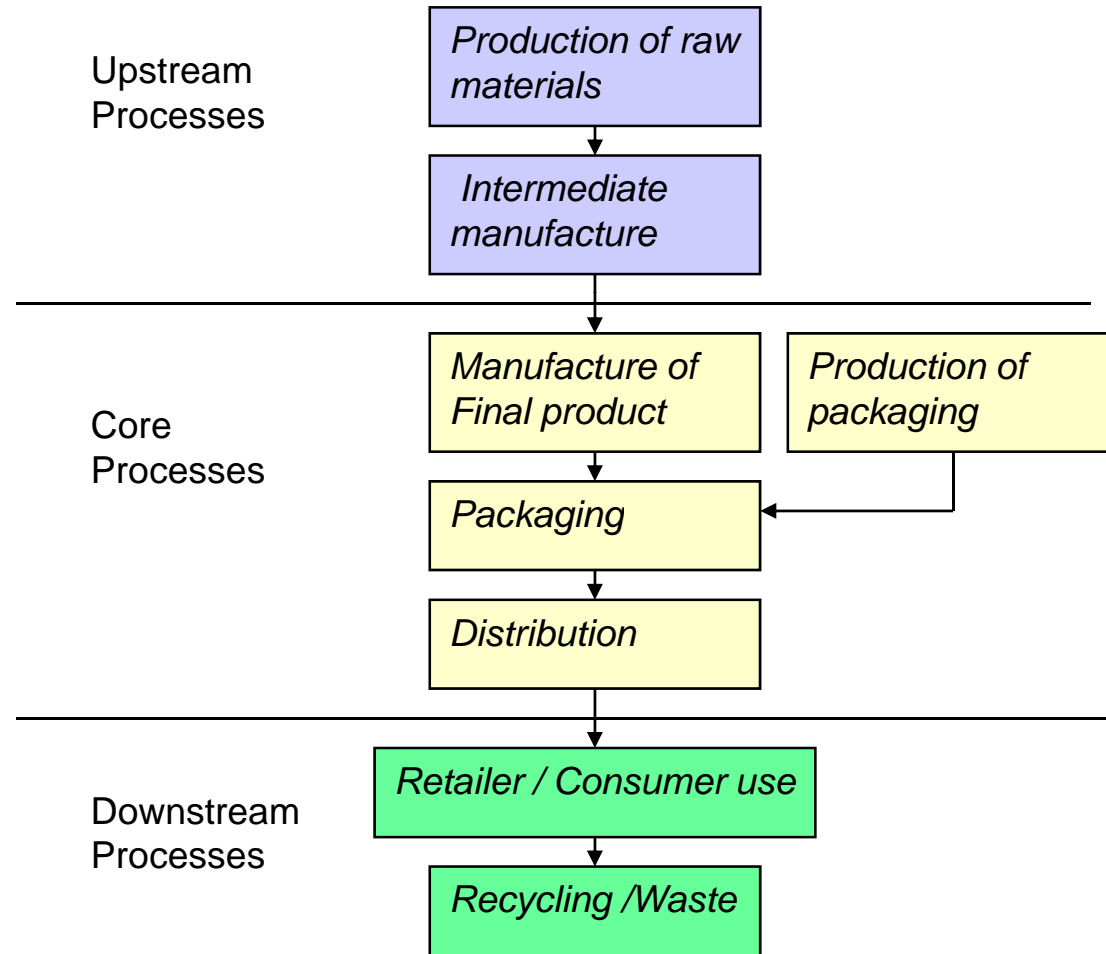
How to review our product **environmental performance** systematically?

Presentation & **Public Communication?**

Life Cycle Analysis (LCA) is a technique to assess the potential environmental impacts associated with a product (or service) throughout its life cycle. **ISO 14040**



SCOPE OF LIFE CYCLE STUDY DEFINITION



PRODUCT ECODSIGN – LIFE CYCLE CONSIDERATIONS



Recycled material
 Sourcing Locally
 No Restricted Substance
 Renewable Resources

Recycle Process
 Min Pollution
 Min Consumable
 Min Defect Rate
 Imp Efficiency
 Energy / GHG
 Health & Safety

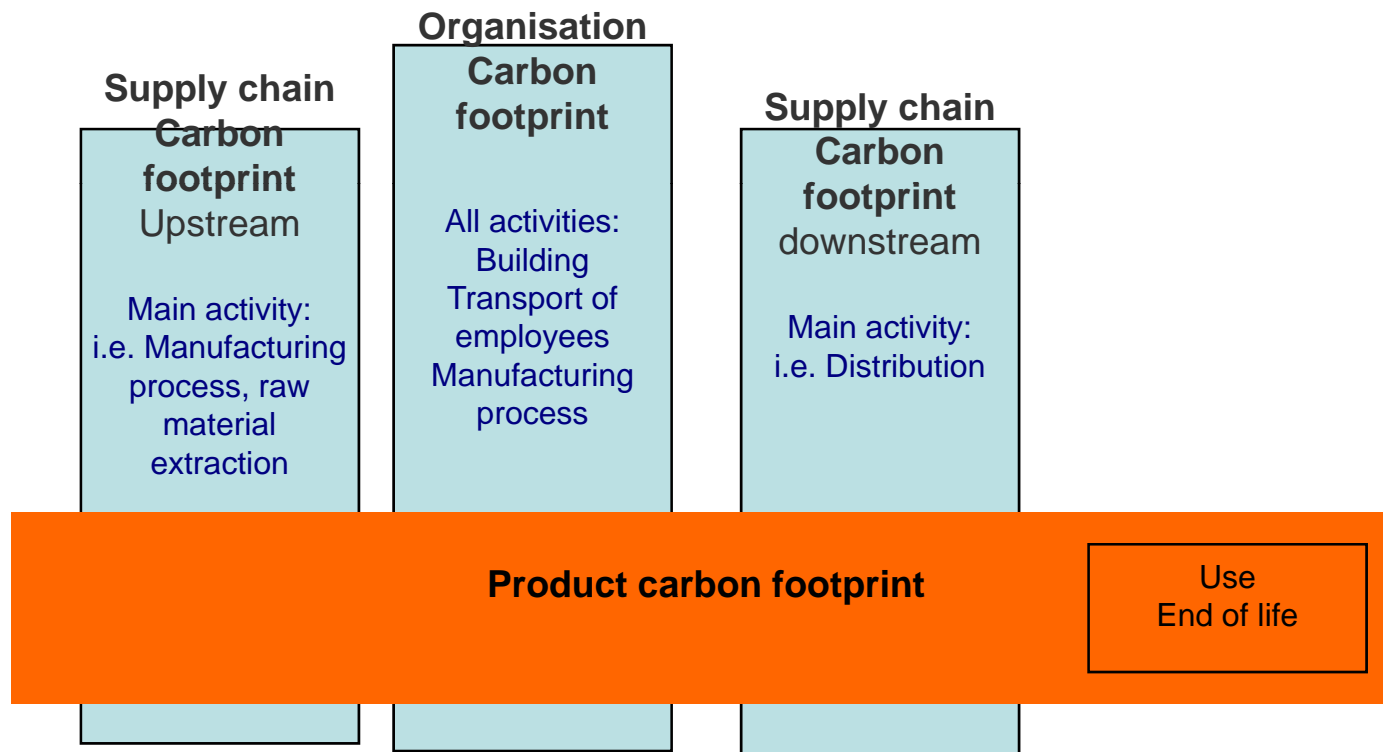
Min Damage
 Optimal Route
 Reduce Packaging
 Vehicle Type
 Energy / GHG

Reduce Waste Generation
 Min Pollution
 Technical Data Sheet
 Clear Communication

Reduce Waste generation to landfill
 Reuse and Recycle

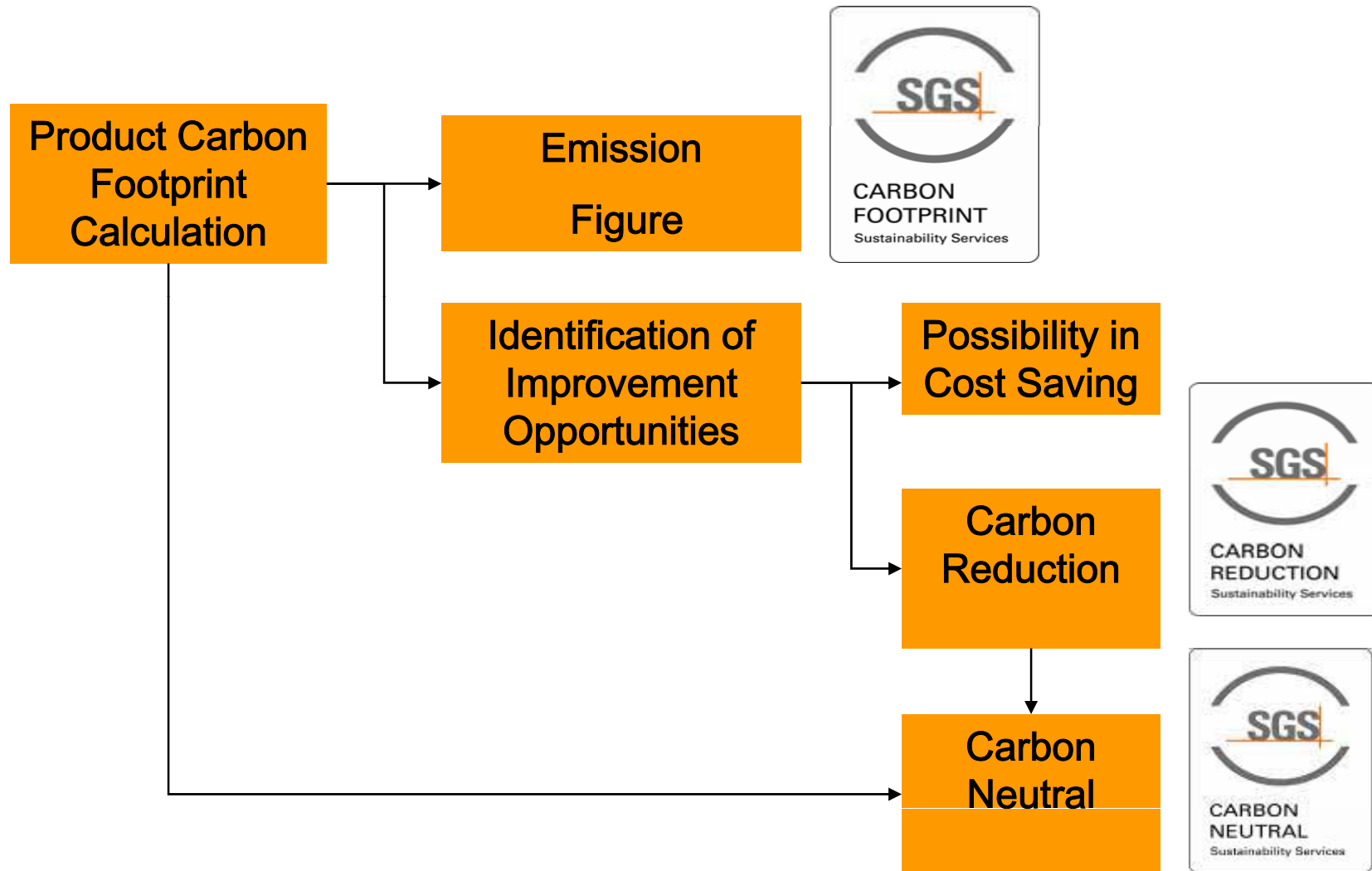
PCF- Product Carbon Footprint

Green house gas emissions associated with manufacture of a product/ package

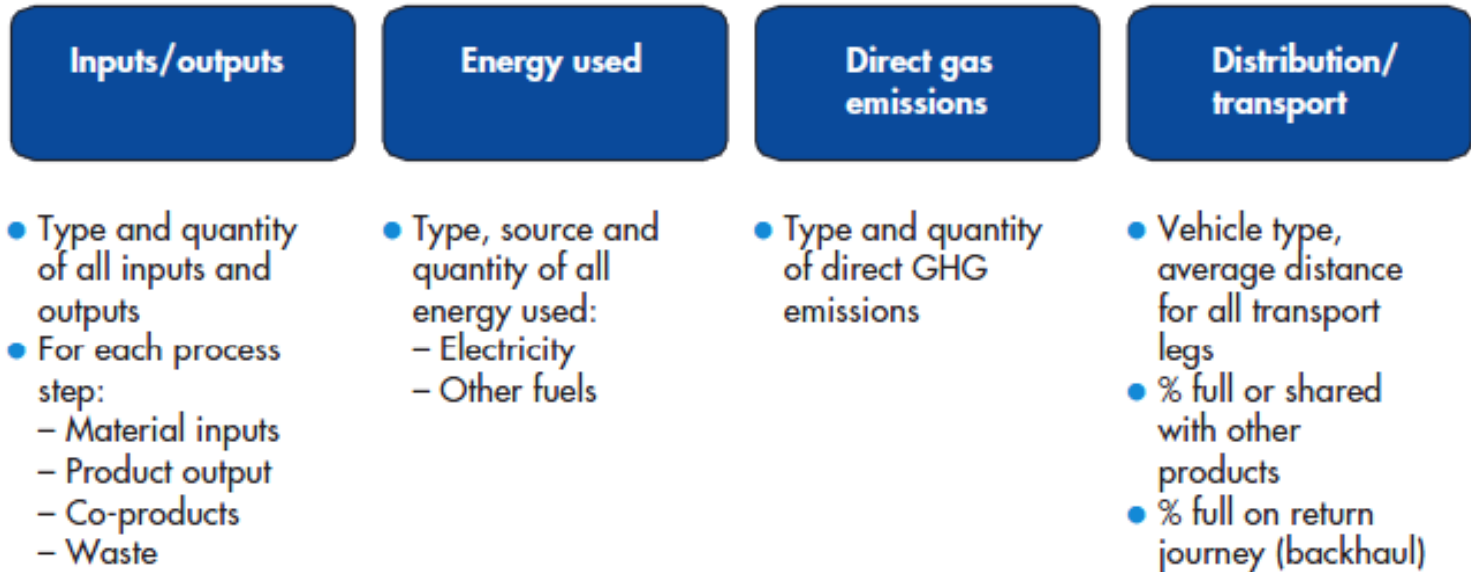


CCF = Corporate Carbon Footprint; PCF= Product Carbon Footprint

Product Carbon Footprint Mark

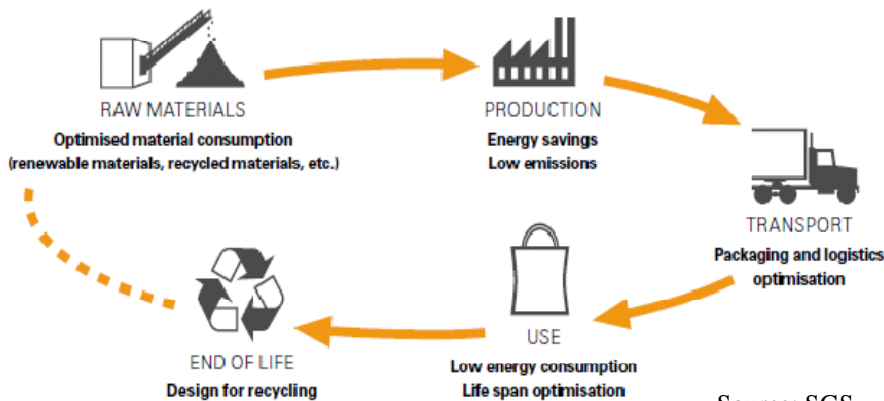


Emission Sources



Per unit of finished product

Source: Guide to PAS 2050:2008



Source: SGS

Operation Efficiency & Energy Saving



HVAC



Heating / Refrigeration systems



Compressor



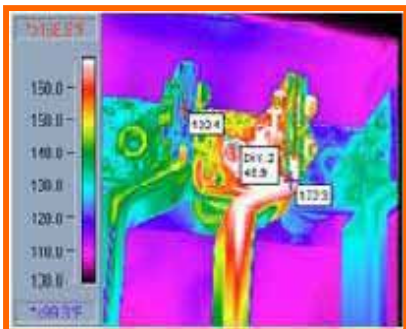
Lighting system



Pump



Vehicle



Electrical system



Motor



Fan

Collect baseline energy use data

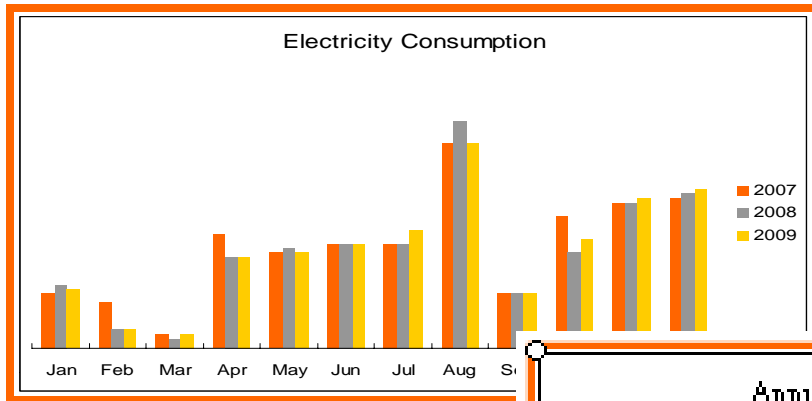
Establish own data collection tool for continuously monitoring

Identify improvement opportunities

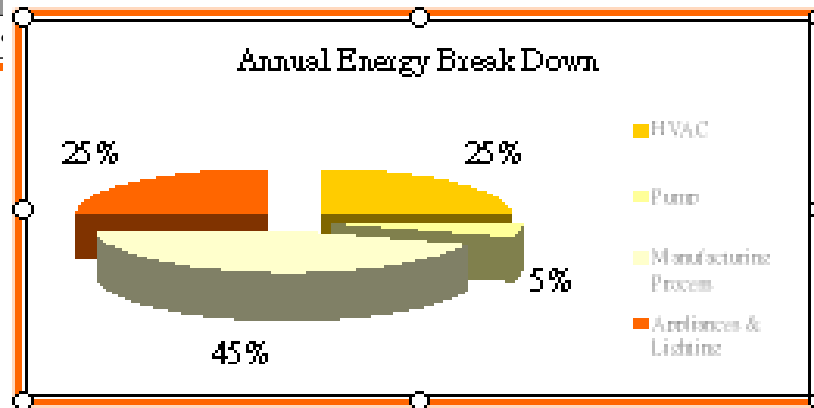
Example

- Appropriate lighting level
- Optimize machine utilization
- Repair steam leak
- Reduce heat loss
- Energy saving management practice

Operation Efficiency & Energy Saving



■ Breakdown of overall energy consumption



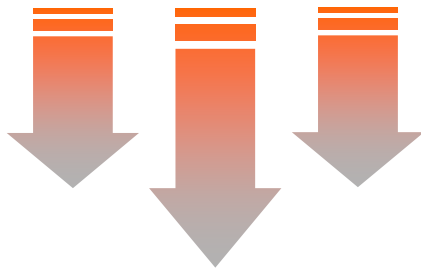
- Improvement in operational efficiency
- Cost saving: reduce energy cost





REDUCTION

from baseline



- Climate change
- Energy & cost saving
- Reduce business impact
- Brand promotion / protection
- Meet regulations

Product Carbon foot print initiatives- Nations

France
(Obligatory)



reducing with
the Carbon Trust



Germany



UK

Swiss

Sweden



ECOMARK

Korea



Taiwan



Projektträger



Öko-Institut e.V.
Institut für angewandte Ökologie
Institute for Applied Ecology



Thema1

Projektpartner



Unlimited. **DSM**



T TENGELMANN



REWE
GROUP





The process of integrating GHG emissions criteria into the label is still in progress.



European Commission - Joint Research Centre

Life Cycle Thinking and Assessment

Institute for the Environment and Sustainability

The logo for the Institute for the Environment and Sustainability (IES), consisting of the lowercase letters 'ies' in a white, cursive, handwritten-style font.

European Database (**ELCD**) and International Reference (**ILCD**) for Life Cycle Assessments

US CLIMATE CHANGE BILL



- Several Different versions
- House Version has passed
- Senate Bill in Process
- **Most contain a requirement for LCA**
- Executive Order requires Scope 3 Carbon Footprints for Federal Government Agencies

RETAILER: CASINO CARBON LABELLING

- In 2007, Casino France collected the environmental data concerning 220 products with the supplier's participation
- CO_{2e} labelling will be implemented on **3000 approximately products**

INDICE CARBONE
55g de CO₂
voir au dos

Faites glisser la feuille sur la règlette pour découvrir les équivalents CO₂ :

L'INDICE CARBONE de ce produit

0 g de CO₂ < Position A < 100 g de CO₂

Faible impact environnemental Fort impact environnemental

GROUPE Casino

" Casino s'engage pour l'environnement en collaboration avec ses fournisseurs pour réduire ses émissions de gaz à effet de serre "

L'INDICE CARBONE*
est une estimation de la quantité de gaz à effet de serre (CO₂...) émise lors des principales étapes du cycle de vie du produit (production + transformation + emballage + transport + distribution).
Cette méthode d'évaluation est issue d'une collaboration avec un organisme indépendant. La mesure est exprimée en g équivalent CO₂ pour 100 g de produit.
* Valable en France Métropolitaine

L'INDICE CARBONE de ce produit

210g
Faible Impact environnemental Fort Imp environnemental

Plus d'informations : www.produits-casino.fr ou SERVICE CONSOMMATEURS

RECYCLAGE*
Vous aussi vous pouvez agir !

49% de l'emballage sera recyclé compte tenu du lit actuel des ménages

88% de l'emballage pourra être recyclé si on trie tous !

Etapes agricoles et fabrication

Le transport

L'emballage

La distribution

Explanation of Casino group concerning its initiative of CO_{2e} labelling

An indicator to show the level of the carbon footprint



Sustainable Coalition of buyers

- **Sustainable coalition** of leading apparel and footwear brands, are driving a new initiative To improve sustainability across the entire apparel and footwear sector.
- To develop an industry-wide index that measures everything from water and energy use to greenhouse gas emissions, waste, and labour practices
- to reduce the environmental and social impacts of products from change in design , production, recycling.
- **Companies:** Nike, Patagonia, Gap , Levi Strauss, M&S, Arvind Mills, C&A, Esprit, JC Penny, Kohls, Li& Fung, Tal apparel, Timberland, VF corp

H&m and sustainable raw materials



■ The conscious collection – Spring 2011

- The objective: to use more responsible materials and market more responsible clothes (and convince customers!)
- The collection uses organic cotton, organic linen, recycled polyester and Tencel (a viscose-like fiber made from eucalyptus)
- Affordable clothes for men, women and children

■ The « waste » collection – Winter 2011

- In association with Lanvin
- Made from « leftover » material

■ Overall commitment of H&M to switch to 100% organic cotton by 2020



Targets for 2010 puma.safe initiatives and long-term sustainability programme:

- To produce 50% of international product collections in footwear, apparel and accessories according to best practice sustainability standards by 2015
 - using sustainable materials such as organic cotton, Cotton Made in Africa or recycled polyester
 - applying best practice production processes



nike – product R&d and new materials

- R&D to investigate, test, and utilise new materials:
 - natural materials, such as bamboo
 - synthetics, such as recycled polyester
- Identification of new raw materials
 - To help mitigate risk posed by shortage of currently used raw materials
 - to introduce more climate-friendly options to the industry
 - to measure and continue to improve the environmental impact of new products



Source: <http://www.nikereuseashoe.com/using-nike-grind>

Carbon-Neutral Lingerie

Mark & Spencer

Source: <http://www.marksandspencer.com/Carbon-Neutral-Bra-Lingerie-Features-Lingerie-Underwear-Womens/b/685127031>



REDUCE, REUSE, RECYCLE



Source: H&M 2010 CSR Report

Improving packaging



Location: United States

Summary: We're taking steps to reduce the amount of packaging used on our products and in shipping our products to our stores.

Gap Inc. Social Responsibility

Source: http://www.gapinc.com/content/csr/html/Goals/environment/our_program_in_action/improving_packaging.html



SUSTAINABILITY – 3 PILLARS

Economy

Sustainable design
(product and store)

Green Sourcing and
Packaging

Encourage Fair Trade

Technology Sharing

Social

Safe and fair working
management in supply chain

Respecting diversity

Community investment

Environment

Work on climate change
Eg Reduce green house gases
LCA, Product carbon foot
print










Supply chain environmental
practice management

e.g. Clean water system,
RS control










Recycling

Waste Reduction

Comparison of the Sustainability Strategies

									
Economy									
Sustainable design	•	•	•	•		•	•	•	•
Technology sharing beyond suppliers from different Countries				•			•	•	
Encourage fair trade			•			•	•		
Develop green product line					•	•	•		

Comparison of the Sustainability Strategies

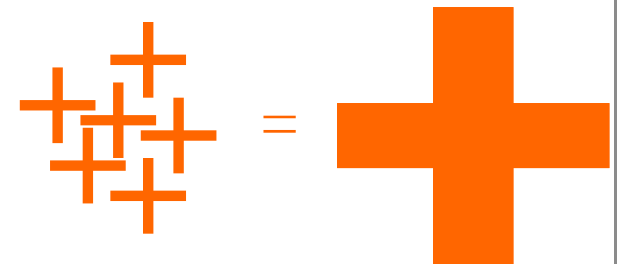
<u>Social</u>									
Safe and fair working environment in the supply chain	•	•	•	•		•	•	•	•
Respecting diversity	•				•			•	
Community investment	•		•	•			•	•	•
Educate customers/suppliers		•	•	•	•	•	•		

Comparison of the Sustainability Strategies

<u>Environmental</u>									
Work on climate change	•	•	•	•	•	•	•	•	•
Energy conservation	•	•	•		•	•	•	•	•
Waste Reduction	•		•	•	•		•	•	•
Supply chain environmental practice management (e.g. RS control, wastewater treatment)	•	•	•	•	•	•	•	•	•
Recycling	•		•		•	•	•	•	•
Bluesign									

SUSTAINABILITY: IT IS NOT TOO LATE

- « I don't have time », « it is not a priority », « I don't have a budget for it »...
- As a company you can act
 - Everyday
 - on « small » scale projects with « small » scale results that will add up to « big » improvements
 - On your products and services
 - On Packaging
 - On your supply chain
 - On the environnement
 - On transport and storage
 - On your buildings
 - Etc.
- What will the benefits be?
 - Improved supply chain
 - Image and competitive advantage
 - Overall continuous improvement and cost reduction



SUSTAINABILITY SOLUTIONS

A dedicated range of solutions for consumer goods

SGS Sustainability Services



- Social Audits
- Anti-bribery prevention



- Product environmental assessment
 - LCA
 - Product Carbon Footprint...
- Management solutions
 - Eco-innovation Management
 - Green procurement
- Product solutions
 - Labelling and green claims verification
 - Ecodesign of packaging



- SVHC testing
- REACH only representative
- SIEF and Third party representation
- Safety data sheet

SGS

We Are



- First registration as **Société Générale de Surveillance** in Geneva in 1919
- Listed publicly in 1985 in Geneva
- Global presence



Thank You

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