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About The Sustainability Consortium (TSC)

Enabling the consumer goods industry to provide more sustainable products



- A cross-sector, multi-stakeholder, non-profit organization that translates scientific information for product sustainability into business practice in the consumer goods industry
- Mission: to design and implement credible, transparent and scalable, science-based measurement and reporting systems accessible for all producers, retailers, and users of consumer products
- A global organization, coordinated by universities in the United States, Netherlands and China
- >100 Member and partners and 1000s of users worldwide



About The Sustainability Consortium (TSC)

Co-operation between Universities, NGO's and Business

Co-ordinated by Universities in Europe, North America and Asia

Started in July 2009

Financing by company members and users (>100 members)

Yearly budget about 6 million dollar

Approach

Product level

All consumer products

Globally applicable

Retailer – supplier communication

Environmental and social sustainability

Science based

Life cycle thinking

Stakeholder process



Members from business, academia, government and the NGO sectors. Corporate annual turnover nearly 2 Trillion Euro



www.sustainabilityconsortium.org/members/ (March 2015)

TSC working groups are across consumer goods sectors. Together they have identified over 500 unique improvement opportunities and 400 hotspots related to 110 product categories.



ELECTRONICS



FOOD BEVERAGE &
AGRICULTURE



HOME &
PERSONAL CARE



PAPER,
PULP,
& FORESTRY



PACKAGING



TOYS



GENERAL
MERCHANDISE



CLOTHING, FOOTWEAR
& TEXTILES



RETAIL



MEASUREMENT
SCIENCE



Four years ago, when I received an email from the wine team asking for an attribute in bulk shipping, **I would have spent two weeks on google, and talking to people about wine, trying to understand if bulk shipping counted.** I probably would have told them no. My buyer would have sulked, given up on sustainability and we would have not made progress in the wine category. **This year, I looked up the information in The Consortium's CSPs and KPIs.** I then checked this information against the supplier and wrote an email back that day approving the category.



Carmel McQuaid, Marks & Spencer



TSC Product Sustainability Toolkits (through 2014)



Cotton	Computers	Apples	Corn Syrup	Non-Dairy Products	Spirits and Liquors
Cotton Textiles	Consumer Electronics Peripherals	Bananas	Cucumbers	Nuts	Stone Fruit
Polyester textiles	Monitors	Beans, Lentils, and Peas	Dairy	Packaged Cereal	Sugar
Rayon textiles	Electronic Accessories	Beef	Dry Pet Food	Pasta	Table Grapes
Nylon textiles	Mobile Devices	Beer	Eggs	Pork	Tea (Non-Herbal)
Cotton/Polyester Blend	Printer Ink	Berries	Farmed Fish	Potatoes	Tomatoes
	Printers	Bread	Farmed Shellfish	Prepared Salads	Wet Pet Food
	Small Appliances	Chicken	Frozen Convenience Meals	Processed Berries	Wild-Caught Fish
	Televisions	Chocolate	Grains	Processed Citrus	Wine
	Video Game Consoles	Citrus	Jams and Jellies	Seed Oils	
		Cocoa	Juice	Soda and Sports Drinks	
		Coffee	Leafy Vegetables (Lettuce)	Soup	



TSC Product Sustainability Toolkits (through 2014)



Adhesive Tapes	Glass Products	Adhesive Bandages	Transportation	Packaging	Books and Magazines	Board Games
Antifreeze	Hand Tools	Aerosol Air Fresheners			Copy Paper	Metal Toys
Automotive Fuels	Incandescent Lamps	Dentifrice			Dimensional Lumber	Plastic Toys
Automotive Oils	Lead-Acid Batteries	Diapers			Fibrous Wood Panels	Plush Toys
Automotive Tires	Light Emitting Diode Lamps	Feminine and Nursing Hygiene			Greeting Cards	Wooden Toys
Bicycles	Metal & Plastic Products	Hair Coloring Products			Household Papers	
CDs & DVDs	Metal Products	Laundry Detergent			Stationery Paper	
Ceramic Products	Paint	Leave-On Skin Products			Structural Wood Products	
Flatware, Cutlery & Utensils	Plastic Products	Non-Aerosol Air Fresheners			Wooden Pencils	
Fluorescent Lamps	Small Batteries	Pharmaceutical Drugs				
		Showering Products				
		Surface Cleaners				
		Wipes				



TSC Product Sustainability Research Database | What's Inside?

Enabling practical, consistent, scientifically-based measurement and reporting



Scientifically Identified **Hotspots** – Processes and activities in a product life cycle that may have significant environmental or social impacts.



Scientifically Identified **Improvement Opportunities** – Ways to reduce the impacts of hotspots



Multi-stakeholder Developed **Key Performance Indicators** – Questions that measure performance and progress on hotspots



TSC Tools and Services

110 TSC Product Sustainability Toolkits available!

Product Sustainability Toolkits

TSC Product Sustainability Toolkits are science-based and stakeholder-informed, including input by companies, academics, civil society organizations, and government agencies. The objective of the Toolkits is to facilitate decision-making by *retailers*, *manufacturers*, and *suppliers* along the value chain, with an emphasis on **impact** and improving **product sustainability**.



Category Sustainability Profile (CSP)

A summary of the best available, credible, and actionable knowledge about the sustainability aspects related to a product category over its entire life. Each CSP represents the culmination of a significant body of scientific research and expert opinion. This document also contains key performance indicators.



Key Performance Indicator (KPI)

Questions that companies and organizations can use to assess and track the performance of suppliers on critical sustainability issues. The KPI questions focus on the relevant environmental and social issues to a single product category or family of consumer goods.



Sustainability Snapshot

A one-page summary of relevant issues, hotspots, and improvement opportunities for a product category in an accessible overview. A Snapshot pulls information from the Category Sustainability Profile.

Sustainability Insights

A two page summary for consumer audience. Publicly available through the TSC website: www.sustainabilityconsortium.org/product-categories/



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- **Use of Toolkits**

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Accessing TSC Product Sustainability Toolkits

TSC Member Portal

Members can:

- ✓ Access all toolkits in PDF format
- ✓ Comment on development of toolkits
- ✓ Access workshops and project outcomes
- ✓ Analyze content within and across sectors

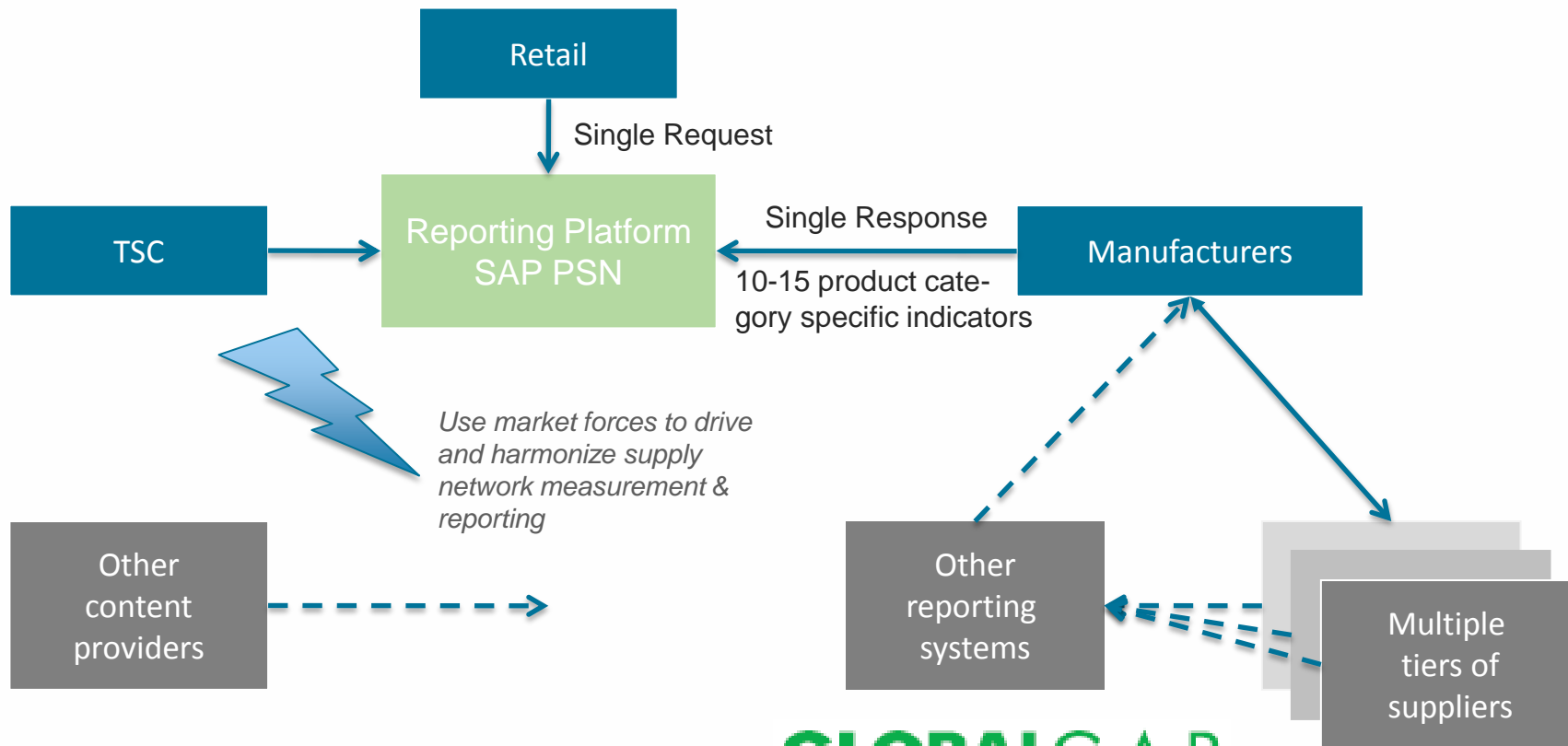
SAP Product Stewardship Network

Companies can:

- ✓ Purchase TSC Product Sustainability Toolkits
- ✓ Communicate with supply chain –share, survey, message, assess progress



KPI alignment in a supply network



GLOBALG.A.P.
The Global Partnership for Safe and Sustainable Agriculture



Implementation by Members and non-Members

Members:

- Walmart
 - Fall 2012: 5000 USA suppliers
 - Winter 2014: 4000 suppliers in 7 countries;
 - Winter 2015: 4000+ including Sam's Club (food service supplier).
Communication to consumers: Top 20%
- 18 Small scale pilots: M&S, Kroger, McDonalds, 3M, Jarden, a.o.
- Ahold pilot, started in 2013, in cooperation with suppliers, farmers organization ZLTO, Ministry of Economic Affairs and Rabobank



Non-members:

- Use of Tools: Several non-TSC retailers bought access to tools
- Work in Partnership with various retailers in Netherlands, Belgium, France and Germany
- Starting up projects with:
 - CGF members Sustainability group
 - Retailers from two other countries



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- **Phosphorus**



Key Performance Indicators

- Both social and environmental indicators
 - where possible outcome based; metrics
 - otherwise asked for application of a policy or standard
- Non-prescriptive for specific tool or standard, but with minimal requirements (e.g. based on ILO)
- Maximum of 15 KPIs per product category

Potatoes

- Access to Opportunities for Smallholder Farmers
- Child Labor Use - Growing operations
- Crop supply mapping
- Fertilizer application - Growing operations
- Greenhouse Gas Emissions – Gr.operations
- Irrigation Water Use - Growing operations
- Labor Rights - Growing operations
- Pesticide Application - Growing operations
- Soil Erosion - Growing operations
- Worker Health and Safety – Gr. operations
- Yield - Growing operations
- Food Waste Generation – Processing
- Fuel Combustion - Distribution

Beef

- Fertilizer application – Finishing stage feed cultivation
- Deforestation and land conversion – Feed sourcing
- Animal welfare certification and audits
- Antibiotic use - Finishing stage
- Deforestation and land conversion - Finishing stage
- Greenhouse gas emissions – Finishing stage
- Land degradation – Finishing stage, grazing
- Nutrient management – Finishing stage
- Utilizing by-products as feed – Finishing stage
- Water use - Finishing stage
- Carcass utilization
- Greenhouse gas emissions – Processing
- Labor rights – Processing



Key Performance Indicators

Aligning with existing initiatives

Initiatives:

- CDP (Carbon Disclosure Project)
- Cool Farm Tool
- DMI (Dairy management Inc.)
- Field to Market
- GlobalGAP
- SISC (Sustainability Index for Specialty Crops)
- SAI Platform (Sustainable Agriculture Initiative Platform)

Aspects:

- Metrics
- Tools for calculation



Phosphorus KPI

Impacts: eutrophication (leaching, runoff), and resource depletion

Two types of KPIs:

1. Nutrient management - Finishing stage (e.g. beef)

→ *'sourced from beef finishing farms that have a nutrient management program in place'*

- **Verifiable nutrient management plan:** an annually updated document that farmers can demonstrate on-site. The management plan should summarize concrete goals and a plan how to achieve these goals

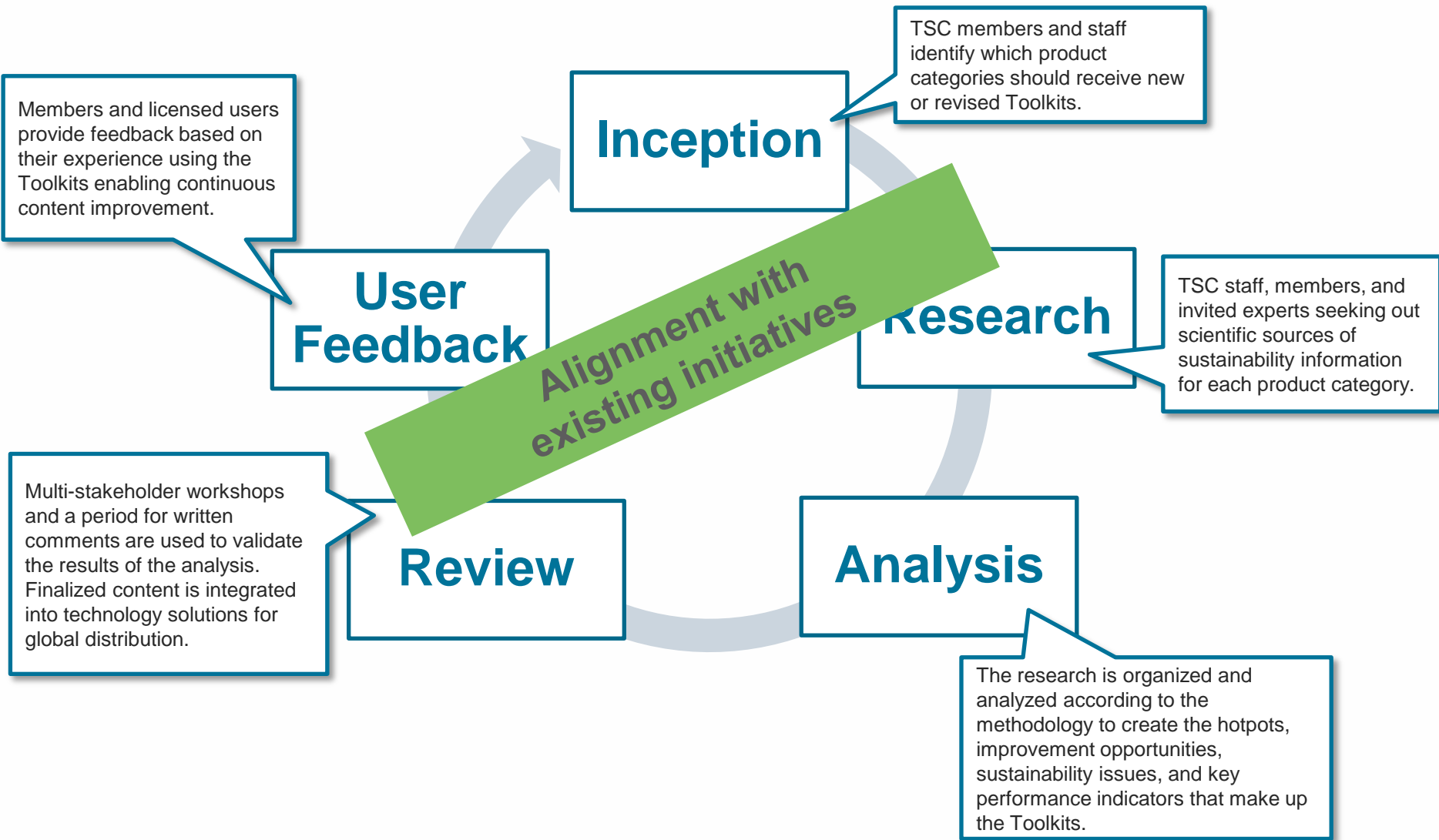
2. Fertilizer application – Growing operations (crops; KPI is aligned with SISC)

→ *'kg phosphorus surplus per metric tonne of crop supply harvested'*

- **phosphorus (P) surplus** is calculated by farms as the difference between the mass of phosphorus applied and the recommended phosphorus application
- **recommended phosphorus application** is the agronomic recommendation for phosphorus application, based on recent soil P test results and the crop to be grown
- Elegant:
 - simplicity,
 - taking into account soil status, and differences in soil P analysis
- Limited:
 - when P application is based on crop rotation



Multi-stakeholder development model



Thank you for your attention



The Sustainability Consortium® is jointly administered by Arizona State University and University of Arkansas with additional operations at Wageningen University and Nanjing University.

