

World Apparel & Footwear Database (WALDB) – Status of project work

Prepared for: BAFU

Prepared by: Quantis Switzerland / Germany



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World Apparel & Footwear Database (WALDB)

Quantis

Quantis is a leading life cycle assessment (LCA) consulting firm specialized in supporting companies to measure, understand and manage the environmental impacts of their products, services and

operations. Quantis is a global company with offices in the United States, Canada, Switzerland and

France and employs close to 70 people, amongst which several are internationally renowned experts

in the LCA field.

Quantis offers cutting-edge services in environmental footprinting (multiple indicators including

carbon and water), eco design, sustainable supply chains and environmental communication.

Quantis also provides innovative LCA software, Quantis SUITE 2.0, which enables organizations to

evaluate, analyze and manage their environmental footprint with ease. Fuelled by its close ties with

the scientific community and its strategic research collaborations, Quantis has a strong track record

in applying its knowledge and expertise to accompany clients in transforming LCA results into

decisions and action plans. More information can be found at www.quantis-intl.com.

This report has been prepared by the Swiss office of Quantis. Please direct all questions regarding

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PROJECT INFORMATION			
Project title	World Apparel & Footwear Database (WALDB)		
Contracting organization			
Liability statement	Information contained in this report has been compiled from and/or computed from sources believed to be credible. Application of the data is strictly at the discretion and the responsibility of the reader. Quantis is not liable for any loss or damage arising from the use of the information in this document.		
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Associated files	-		

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Abbreviations and Acronyms

CO₂ Carbon Dioxide

eq equivalents

GHG Greenhouse gas

GWP Global Warming Potential

IPCC Intergovernmental Panel on Climate Change
ISO International Organization for Standardization

kg Kilogram = 1,000 grams (g) = 2.2 pounds (lbs)

km Kilometer = 1000 meters (m)

kWh Kilowatt-hour = 3,600,000 joules (j)

LCA Life Cycle Assessment

LCI Life Cycle Inventory

LCIA Life Cycle Impact Assessment

m² Square meter

m³ Cubic meter

MJ Megajoule = 1,000,000 joules, (948 Btu)

Notice on the project status WALDB

1 Introduction

Apparel and footwear is a highly visible and major segment of overall global consumption. The production of apparel and footwear is related to a wide range of environmental impacts ranging from water consumption caused by cotton cultivation, or impacts related to dyeing and tanning, to greenhouse gas emissions derived from manufacturing and distribution, for example.

Currently, tangible data on the environmental impacts of the processes along the apparel and footwear supply chain is rare or non-existent. However, driven by the development of new public policies, like the Green Economy and the EU's Single Market for Green Products, interest in calculating life cycle assessments of the apparel and footwear industry is rapidly increasing.

The project "World Apparel & Footwear Life Cycle Assessment Database (WALDB)" will deliver quantified data for environmental impact assessment and footprinting in the fashion industry. The database will hold data for the most relevant environmental indicators on cultivation, processing and finishing that are based on primary data from the WALDB partners in addition to existing datasets found in scientific studies. The data can be used in all common LCA tools and fulfils the quality guidelines of ecoinvent and of European Life Cycle Database (ELCD).

At launch, the database consists of 60 data sets that cover wool, cotton, and leather supply chains. WALDB will be continuously expanded during the three years of the project according to the needs of the partners and published in annual releases.

2 Status of the work

Main achievements of this first period of the project were following:

- Preparation and holding of the one-day kick-off event
- Start of building of the advisory board
- Preparation of the guidelines

2.1 Kick-off event

The one-day kick-off event was held on the 3rd of November in Zürich, at the Quantis premises. It brought the key partners of the WALDB together, which include HUGO BOSS, Legero/Think! Shoes, the OEKO-TEX® Association, Swiss Federal Office for the Environment (FOEN), and BSD Consulting. The Italian tanning industry association UNIC was also attending as an observer.

Main objectives of the kick-off meeting were:

- Refinement of the project's goals
- Definition of the consortium agreement

- Definition of the strategy for the database management
- Definition of a draft work plan for year 1
- Finalization of the press release

A more detailed summary of the meeting can be found in the minutes of the meeting, in the annex of this document.

2.2 Advisory board

Based on the discussion at the kick-off meeting, various bodies are being contacted to build the advisory board. Following persons/organisations are being contacted:

Manuele Margni CIRAIG Monika Messmer FiBL Anne PERWUELZ ENSAIT Mauro Cordella JRC

Tereza Levova ecoinvent
Mary Ann Curran BAMAC LTd
Jens Soth Helvetas
Tom Brooks IUCN
tbd UNIDO

2.3 Preparation of the guidelines

The guidelines will be drafted in December '15 and January '16. They will be based strongly on the methodological guidelines of the World Food Database

3 Annex: minutes of the kick-off meeting

3.1 General information

Date: 02.11.2015
Venue(s): Zürich
Type of meeting: Kick-off
Duration of meeting: 9h45-17h

3.2 Attendees

Name	Company
Saskia Sanders Ruth Freiermuth Primiano David Pircher Michael Möller	BAFU BAFU UNIC Oeko-Tex Hohenstein
Mark Starmanns Michela Gioacchini (MG) Heinz Zeller (HZ)	BSD Consulting Hugo Boss Hugo Boss
Mireille Faist (MF) Rainer Zah (RZ) Gregory Simmonin (GS)	Quantis Quantis Quantis
Stefanie Lin (excused)	Legero

3.3 Objectives

- ✓ Present the project team
- ✓ Validate the objectives, proposed approach, time schedule and deliverables
- ✓ Define next steps

3.4 Minutes

I/T/D: Information/Task /Decision

Topic	I/T/D	Description	Who
Status Quo		Hansmann HB → contact	
		Decathlon (BAFU)	
		Contact with Frank Henne (Adidas) from HB	
		Call (Ademe) for textile DB (question from BAFU)	
		Becoming a standard: are we enough partners?	
		Would SAC be useful to be a standard?	
		RZ: Bayer / BASF are more useful on the side of data.	
		Discussion with Galatola is important. Key point is	
		the quality and usefulness of the database.	
		DP: implementation is missing at SAC. So WALDB	
		could come from the base to set a standard.	
		Problem: SAC is everywhere but lacks of	
		implementation. Often relevant SAC members are	
		disappointed about work of SAC.	
		HZ: SAC in WALDB only under very strong conditions	
		because collaboration can be rather a step back as	
		forward.	

Access rights	Access rights? Heinz: Goal is to get more partners in the consortium; access during the project exclusively for partners Problem with ecoinvent is to get funding for maintenance FOEN: has of course interest in public data
	 Should be open for new key partners that bring in some know-how (bring in money and data), but not too many to keep it manageable If you want to consume data you should be associated partner Acceptance by board (100% consensus);
	 Business model to be developed by Quantis soon Access rights for advisory board members? Heinz: non-commercial access rights if they do some real quality control work. FOEN supports non-commercial use, OEKO-TEX as well
Tools	Quality checks: two levels: quality check of background data within WALDB; different checks depending on the choosen footprint method (e.g. according to ISO 14'044)

Advisory Group	Heinz: WWF is not anymore a serious partner
riationly croup	Ruth: UNEP not a suitable helpful partner
	WRAP (Mark gives the contact info)
	Textile Exchange
	Mr. Pircher will propose 1-2 US universities active in the
	textile sector
Communication	Add UNIDO
Communication	Roundtable: once a year
Consortium agreement	Hugo Boss: one little comment
	Legero: needs a Austrian place of court; which is a
	problem for the other partners
	BAFU: include synthetics; revise section 8.2
	Clause for termination for FOEN
	Quantis sends a clean version for the legal
	departments
Work Plan Year 1	General agreement on work plan for year 1
	Would be great to have an outdoor company ($ ightarrow$
	Mammut): access to synthetic fibres
	Gore as a further possible
	Speak to Textile Exchange
Natural Capital	Gregory presents the Natural Capital Valuation
Valuation	concept and project.
	HugoBoss explains that the motivation of
	participating in NCC is to understand how hotspots
	might shift when compared with an LCA analysis and
	being able to talk to the high management in a
	language they understand.
	Integrating NCC data in WALDB could be a good
	selling argument.
Press release	The press release is agreed upon with a few editorial
	corrections.
	BAFU communication section gives feedback before
	the release.
	Quantis sends the slides and the updated press
	release.

3.5 Next Steps

(orange background for Quantis and green background for [xx])

Topic	Description	Who
New key partners	Focus should be put on key partners which can bring data, if possible with competence in the outdoor / synthetic value chain (Mammut? Gore?)	Quantis / BSD / Oeko-Tex
Access rights / Business plan for maintenance	Quantis prepares different models for a business plan for maintenance to be decided upon at the next steering board meeting	Quantis
Consortium agreement	Quantis prepares a clean version of the consortium agreement based on the discussion and comments sent. The partners forward it to their legal department for corrections. Having different court places is unusual and is a problem for the other partners go back to .Legero.	Quantis / all
Advisory board	Quantis contacts possible interested bodies as discussed in the meeting. DP provides name of US universities. WWF & UNEP will not be asked.	Quantis
Methodological guidelines	Will be drafted and circulated early 2016 latest	Quantis
Communication	Roundtable takes place once a year	All
Work plan year 1	Agreed as presented	All
Press release	Agreed upon after corrections. Feedback from the BAFU communication section	