

19th

International Technical Footwear Congress

February 03-05, 2016, Chennai, INDIA

www.uitic-congress.cleindia.org/

1

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Supported by:



“Footwear Carbon Footprint calculation”



Patricia Piñeiro
Director of European Affairs & Internal Market
Spanish Footwear Industries Federation (FICE)



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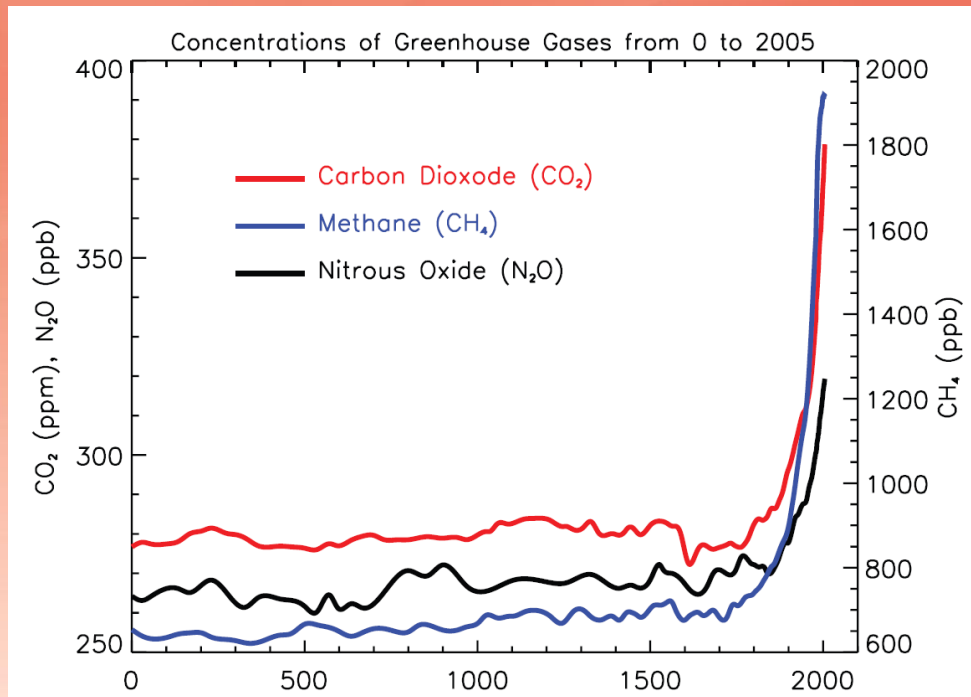
Council for Leather Exports

Supported by:



Govt. of India

Global warming & climate change



Source: IPCC 2013



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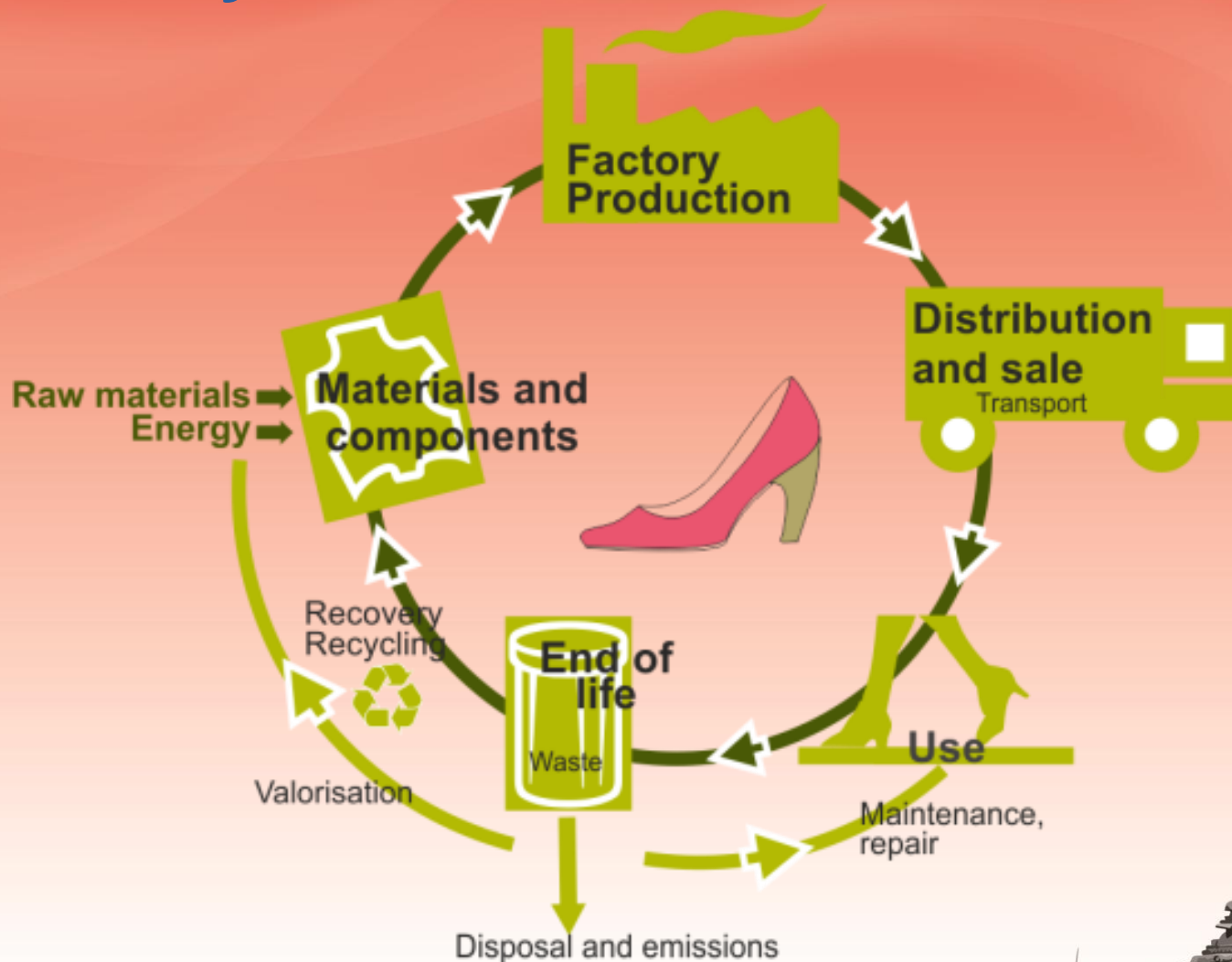
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Life Cycle Assessment



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Organisation carbon footprint

- Study of GHG emissions caused by the development of a **business activity**.

Product carbon footprint

- Study of GHG emissions caused by a **good or service** and based on its **Life Cycle**.



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Footwear carbon footprint calculation

- There is a wide range of methodologies for calculating the carbon footprint (over 40)
- There was not a specific methodology for footwear
- Difficulties in the application of the existing methodologies in specific sectors
- Difficulty to compare results: Different methodologies, scopes, materials, etc.
- Consumer confusion



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Footwear carbon footprint LIFE 12 ENV/ES/000315 - CO2Shoe

Duration: 01/10/2013 – 30/09/2017

Main objective:

To develop a carbon footprint calculation tool specific for footwear to quantify the green house gas emissions of a pair of shoes to improve the environmental situation of the footwear companies

Coordinator



Partners



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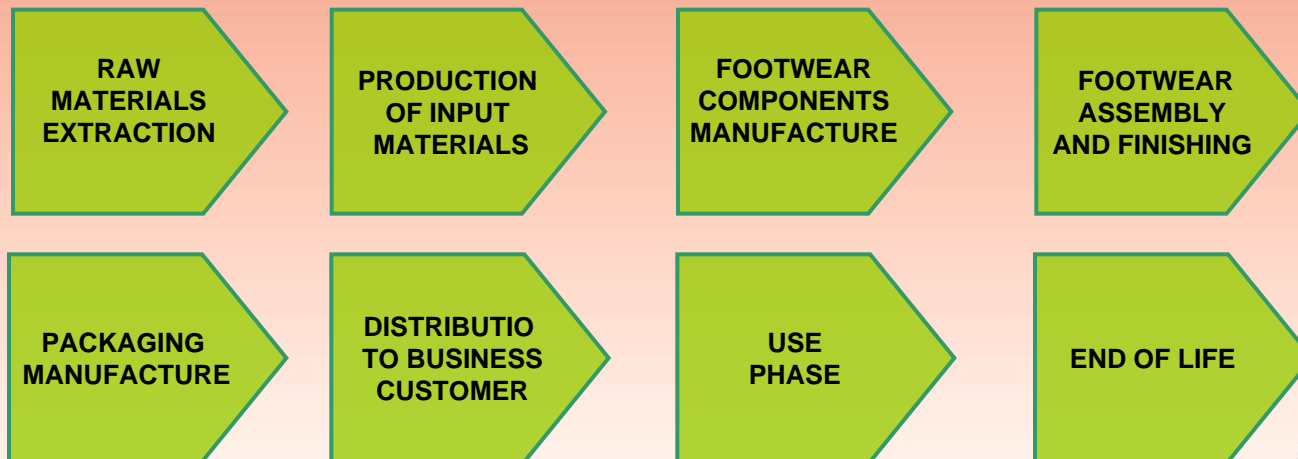


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Objective & scope

- Objective: Quantification of the GHG emissions produced by each pair of shoes
- Functional unit: A pair of shoes inside its box
- System boundaries: Cradle to grave



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Footwear carbon footprint methodology

- ISO standards & Technical Specifications
 - LCA (ISO 14040 – 14044)
 - Carbon footprint (ISO 14067)
- ISO 14067 is specific for “product”
- Product Category Rule: UN CPC 2933 – Leather Footwear



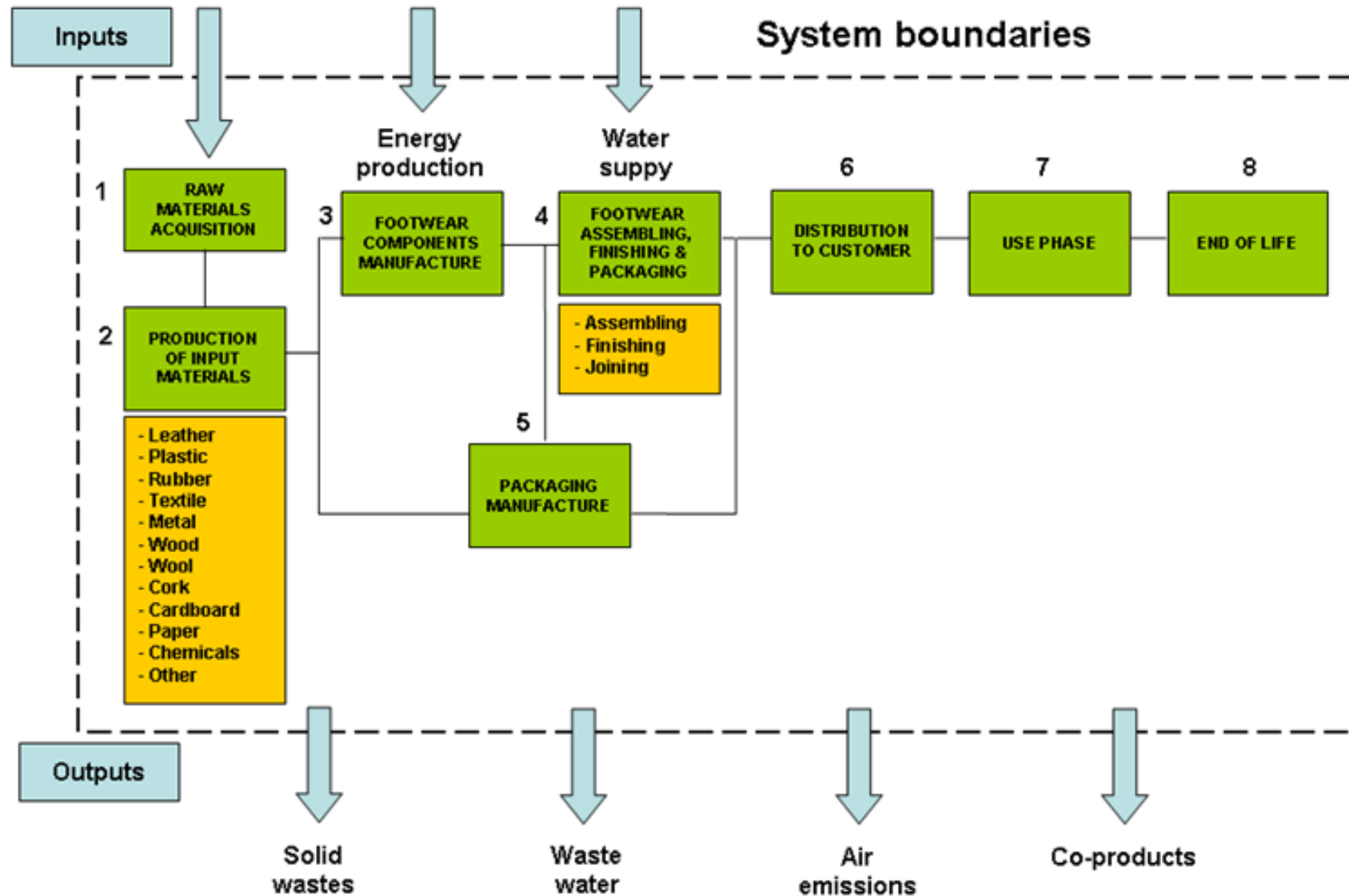
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Footwear carbon footprint stages

- Breaking down the model into components and materials
- Weight
- Origin
- Energy, water, etc.
- Filling in the questionnaire
- Entering data into the tool



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Tool to calculate the carbon footprint of footwear

V.1

2									
3	Project:	Footwear carbon footprint							
4	Reference:	LIFE 12 ENV/ES/000315 - CO2Shoe							
5	Methodology:	ISO/TS 14067							
6	Colours code:								
7		Data to be insert							
8		Fixes data							
9		Results							
10		Negligible value							
11	Initial dates								
12	Entreprise name								
13	Location		Country				Region		
14			Name						
15	Contact person		Mail						
16			Phone			Other			
17									
18	General category								
19	Footwear model name						Size		
20	Functional Unit-weight (g)		0.000	Shoe weight (g)		0.000	Packaging weight (g)		0.000
21	Total production (pair of shoes)				Evaluated period		Start month/year		
22	Production of model (pair of shoes)						Final month/year		


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Verification



AENOR



Environment

CO₂ calculated



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Pilot tests (36 shoe models)

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Shoe models pilot test results

Country	Results (kg CO ₂ e)
Spain	1.3 - 16.7
Portugal	7.8 - 25.3
Poland	4.0 - 13.5
Italy	7.6 - 12.3
Average	10.3

Flight 250 passengers Madrid-Chennai \approx 230.000 kg CO₂e
 Equates to \approx 22.300 pairs of shoes with their packaging



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Summary

- **Carbon footprint:** An indicator used to assess the environmental behaviour of products or organisations (continuous improvement)
- **Today, there is a calculation tool** that allows the specific calculation of the carbon footprint of **footwear**
- The tool has been **verified**
- Allows the **reduction of the carbon footprint**
- **Reinforces** the product, trademark or company **image**



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www.co2shoe.eu



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Thank you for your attention!

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