



ERSCP – EMSU 2010
Knowledge Collaboration & Learning
for Sustainable Innovation

THE INTEGRATION OF SOCIAL CRITERIA IN SUSTAINABLE DESIGN FOR FURNITURE

JOSÉ VICENTE | RUI FRAZÃO | CRISTINA ROCHA | MOREIRA DA SILVA



This presentation:

1. Introduction

2. Research Project

3. SDf Toolkit

4. Workshop & Selected Criteria

5. Conclusions



INTRODUCTION

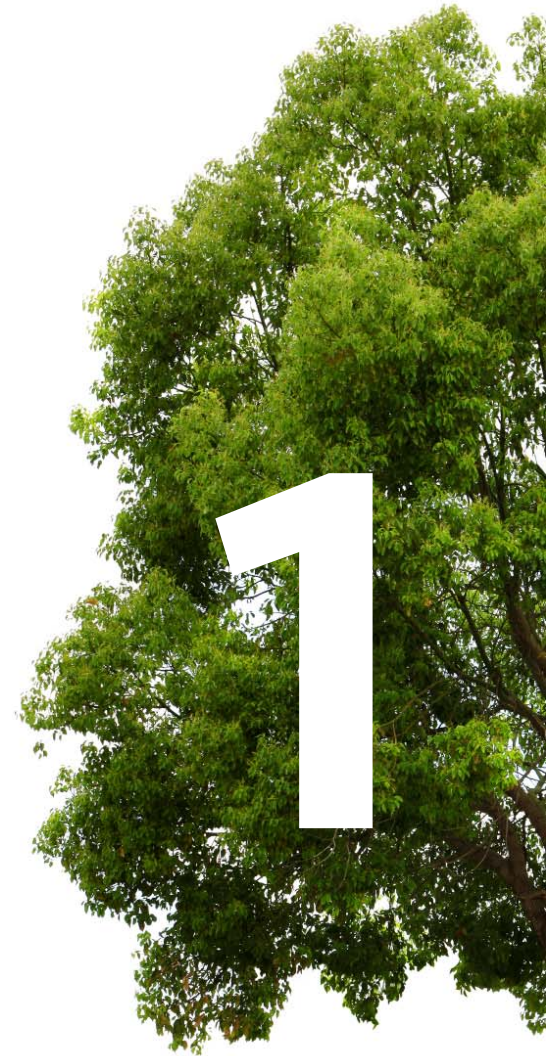
Sustainable consumption and production

Design responsibility

**Sustainable Design comprehensive
approach**

Integration of sustainability information

Environmental + Social



RESEARCH PROJECT

2



PhD Research

*“Contributions to a Sustainable Design
Methodology Applied to the Furniture
Industry: the Portuguese Case”*

CIAUD – Faculty of Architecture TU Lisbon

FCT – Foundation for Science and
Technology

www.designsustentavel.org

2

Sustainable consumption and production

Tools for designers

Focused approach - wood furniture sector

Sustainability

Design

Furniture

2

SDf TOOLKIT

3



SDf TOOLKIT

INTRODUCTION

1 PRIORITIES LIST

2 CHECKLIST

3 3 E'S MATRIX

4 SPIDER DIAGRAM

5 TRADE-OFF TABLE



3

Criteria
+ Environmental
- Social

UN Global Compact

SA8000

NP4469-1

G3 GRI

ISO 26000

3

Selected criteria

- Survey – Furniture sector
 - + Internal
 - External

- Interview – Expert panel
 - Focus on problems
 - Lack of focus in solutions

A large, white, stylized number '3' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is dense and vibrant green, set against a plain white background.

Remaining problems

Vague!

Relevant to sector?

Out of design reach

Part of spectrum

A large, white, sans-serif number '3' is positioned on the right side of the slide. It is partially overlaid by the green foliage of a tree that extends from the right edge of the frame towards the center. The background behind the tree is a plain, light color.

**LISBON WORKSHOP &
SELECTED CRITERIA**

4



Objective

Select criteria:

Relevant to the industry

In the scope of design

Experts

Companies; Ecodesign/SD; CSR; Design

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a lush green tree. The tree's foliage is dense and vibrant, filling the right edge of the frame.

Work base

ISO 26000 Core Subjects:

Human Rights

Labour Practices

Fair Operational Practices

Consumer Issues

Community involvement and development

(Governance)

(Environment)

4

Discussion

Human Rights

- X Human rights risk situation
- OK Discrimination and vulnerable groups
 - Civil and political rights
 - Economic, social and cultural rights
- OK Fundamental principles and rights at work

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is visible behind the number, and the background is a plain white sky.

Discussion

Labour Practices

- X Conditions of work and social protection
- X Social Dialogue
- OK Employment and employment relationships
- OK Health and safety at work
- OK Human development and training in the workplace

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is visible behind the number, and the background is a plain white sky.

Discussion

Fair Operational Practices

- OK Anti-corruption
- OK Respect for property rights
- X Fair competition
- Promote social responsibility in the sphere of influence

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is visible behind the number.

Discussion

Consumer Issues

- OK Fair marketing, factual and unbiased information and fair contractual practices
- OK Protecting consumers' health and consumer safety
- OK Education and awareness
- X Consumer service, support, and complaint and dispute resolution

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is dense and vibrant green, set against a plain white background.

Discussion

Community involvement and development

- OK Community Involvement
- OK Education and culture
- OK Employment creation and skills development
- OK Technology development and access
- OK Wealth and income creation
- OK Social Investment
- X Health

A large, bold white number '4' is positioned on the right side of the slide, partially overlapping a green tree. The tree's foliage is visible behind the number, and the background is a plain white sky.

CONCLUSIONS

5



DESIGN FOR HUMAN RIGHTS PROTECTION	
Do not use child labour	Internally or for Suppliers selection, verifiable through CSR Standards compliance
No gender discrimination	Internally or for Suppliers selection, verifiable through CSR Standards compliance
Respect for civil and political rights	Suppliers selection, verifiable through CSR Standards compliance
Respect for social and cultural rights	Suppliers selection, verifiable through CSR Standards compliance
DESIGN FOR FAIR LABOUR PRACTICES	
Promote the utilization of internal skills	Integrate skills of workers on the project to strengthen their ties to the company
Promote the development of new skills	Design choices that foster innovation and new training for human development
Promote health and safety practices	Design choices that contribute to promote health and safety
Select less hazardous processes	Propose and select processes safer for workers
Select less hazardous materials	Propose and select materials that are less toxic and hazardous to workers
Select suppliers with good health and safety practices	Suppliers selection, verifiable through Standards compliance
DESIGN FOR FAIR OPERATING PRACTICES	
Follow professional code of conduct for designers	Work according to principles of professional and conduct
Respect industrial and intellectual property	Do not copy or otherwise usurp the authorship and intellectual property
Proceed to the registration of design patents	Register through the design or patents in countries where it is marketed



DESIGN FOR CONSUMER ISSUES	
Develop responsible marketing strategies	Engage in positive actions in marketing - informative, educational and honest
Develop responsible communication supports	Communication that allows an informed purchase and a correct use
Develop educational communication supports	Communicate the criteria underlying the product, tips on maintenance and end of life
Develop responsible advertising	Do not develop misleading or biased advertising
Develop manual for (dis) assembly	To promote correct assembly and disassembly
Respect the precautionary principle	UN Declaration - Rio 92
Use high ergonomic standards	Easy, comfortable and not cause injury during use
Using principles of inclusive design	Can be used by all, namely people with disabilities
Use principles for safety in use	Safe products for domestic use.
Prevent passive emission of toxic substances	During use, as the case of formaldehyde, harmful in enclosed places
DESIGN FOR COMMUNITY INVOLVEMENT AND DEVELOPMENT	
Select local suppliers	Contribute to the development of the local community
Select local raw materials	Contribute to the development of the local community
Promote the differentiation of identity	Incorporate local references as a way to cope with the neutrality of globalization
Foster the use of local skills	Incorporate knowledge of local industries and artisans
Preservation of cultural heritage	Incorporate and reinterpret the traditional heritage
Foster technological development	Develop and incorporate technological advances, both internally and by the community
Develop projects of social investment	Utilize company resources (waste, HR, ...) to return to the community



Designers role
SR Design strategies and criteria
Operationalization of SD
ISO 26000

5

Thank You!

www.designsustentavel.org



Host:



Financing:

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

Support:



Laboratório Nacional de Energia e Geologia, I. P.