

# Socioeconomic study & feasibility study

## Background & methodology

IMPEL Workshop on „Clamping on illegal waste shipments to Africa“

24<sup>th</sup> - 26<sup>th</sup> of November 2009, Accra

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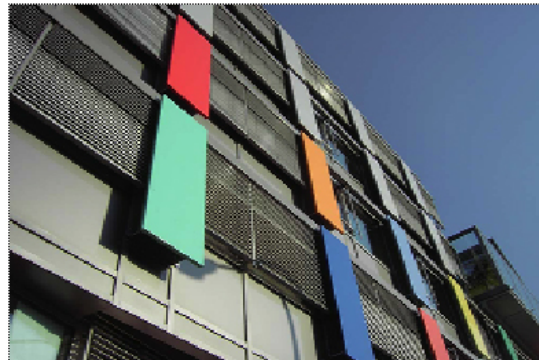
## About Öko-Institut

- also named "*Institute for Applied Ecology*" -

The Öko-Institut is a leading European research and consultancy institution working for a sustainable future. It is a value driven non-profit-organisation and employs more than 130 staff at three locations: Freiburg, Darmstadt and Berlin.

The Öko-Institut has five research Divisions:

- Energy & Climate Protection
- Infrastructure & Enterprises
- Nuclear Engineering & Facility Safety
- Sustainable Products & Material Flows
- Environmental Law & Governance



# Component 1

Fact finding study on transboundary movement into several West African countries in particular from European countries



## Participating countries:

Benin, Côte d'Ivoire, Ghana, Liberia, Nigeria, Europe

## Implementing partners:

Local authorities, BCCC-N, BCRC-S, Empa, Öko-Institut

*A fact finding study will be carried out on flows in used and end-of-life e-products imported by land and by sea, in particular from European countries*

*Local personnel will be trained by international experts and associated to the undertaking of the field research and collection of data*

E-waste country assessment incl. multi-stakeholder process



Participating countries:  
Benin, Ghana, Nigeria

Implementing partners:

Local authorities, BCCC-N, BCRC-S, Empa

- *National assessments of used and end-of-life e-equipment will be undertaken.*
- *The country assessments will encompass:*
  - *The description and assessment of e-waste management practices*
  - *Potential impact to human health and the environment*
  - *Assessment of needs to ensure environmentally sound management, and a detailed description of the legal and regulatory infrastructures in place*
- *Assist to develop national environmentally sound management policies for nationally generated e-waste*
- *The results of the country assessments will be shared with a national multi-stakeholder group*

## Component 3

In-depth socio-economic study on the functioning and the sustainability impacts of the e-waste sector



Participating countries:

Nigeria, Ghana

Implementing partners:

Local authorities, BCCC-N, Öko-Institut

*In-depth socio-economic studies on the functioning and the sustainability impacts of the informal e-waste sectors in Nigeria (Lagos) and Ghana (Accra) will be prepared*

*Feasibility studies for developing local niche markets for environmentally sound management will be carried out*

## Component 4

Enforcement program on the monitoring and control of transboundary movements and the prevention of illegal traffic



Participating countries:

Benin, Egypt, Ghana, Nigeria, and Tunisia

Implementing partners:

IMPEL with local authorities



# About Component 3



## About the Methodology

Socioeconomic study

Official launch:

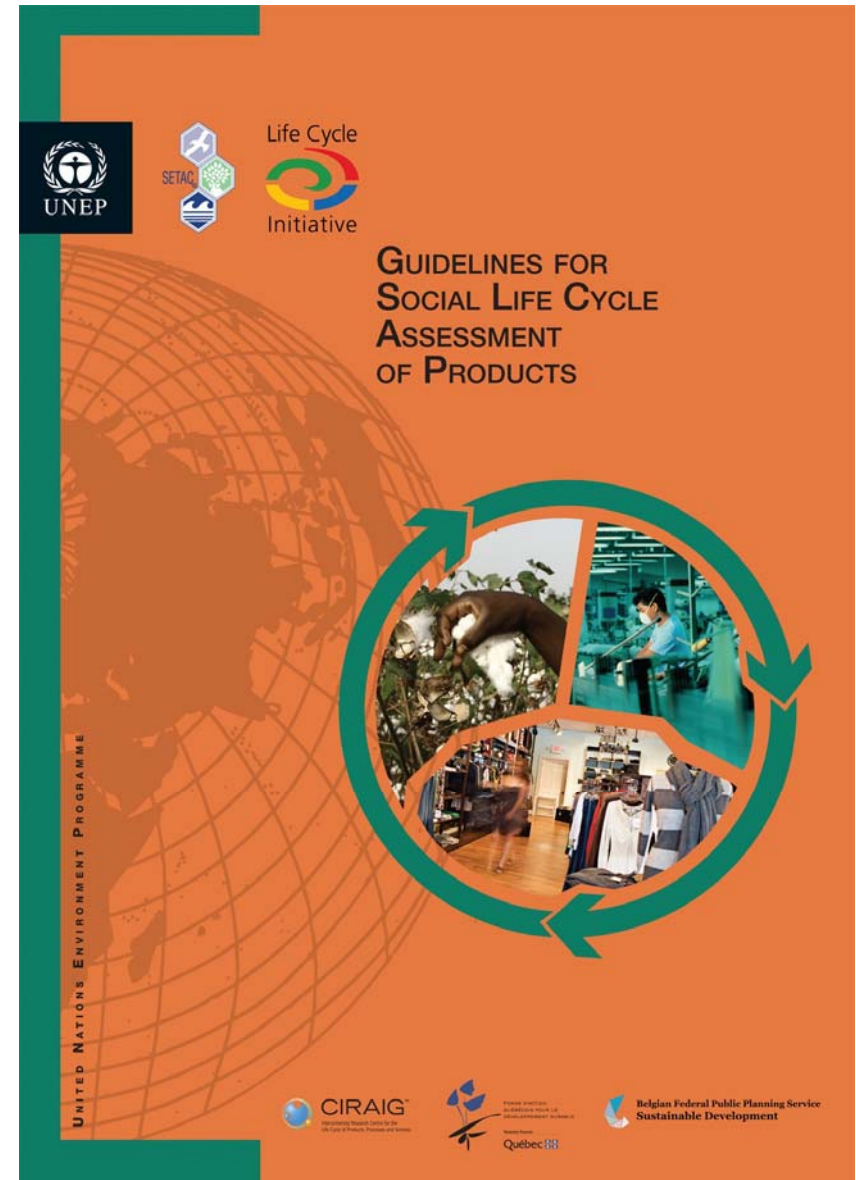
18<sup>th</sup> May 2009

at the ISO 26 000 conference  
in Québec, Canada

Download documents:

<http://lcinitiative.unep.fr/>

➔ Provides a toolbox to conduct socioeconomic assessments of individual sectors





## About the Methodology

Socioeconomic study

PRODUCT SUSTAINABILITY ASSESSMENT **PROSA** PRODUKT-NACHHALTIGKEITS-ANALYSE



➔ Provides a comprehensive list of socioeconomic indicators

## The PROSA Indicators:

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### **A: Impacts on employees**

- A 1 Health & safety
- A 2 Freedom of association, right to collective bargaining / workers' participation
- A 3 Equality of opportunity and treatment / fair interaction
- A 4 Forced labour
- A 5 Child labour
- A 6 Remuneration
- A 7 Working hours
- A 8 Employment security
- A 9 Social security
- A10 Professional development
- A11 Job satisfaction

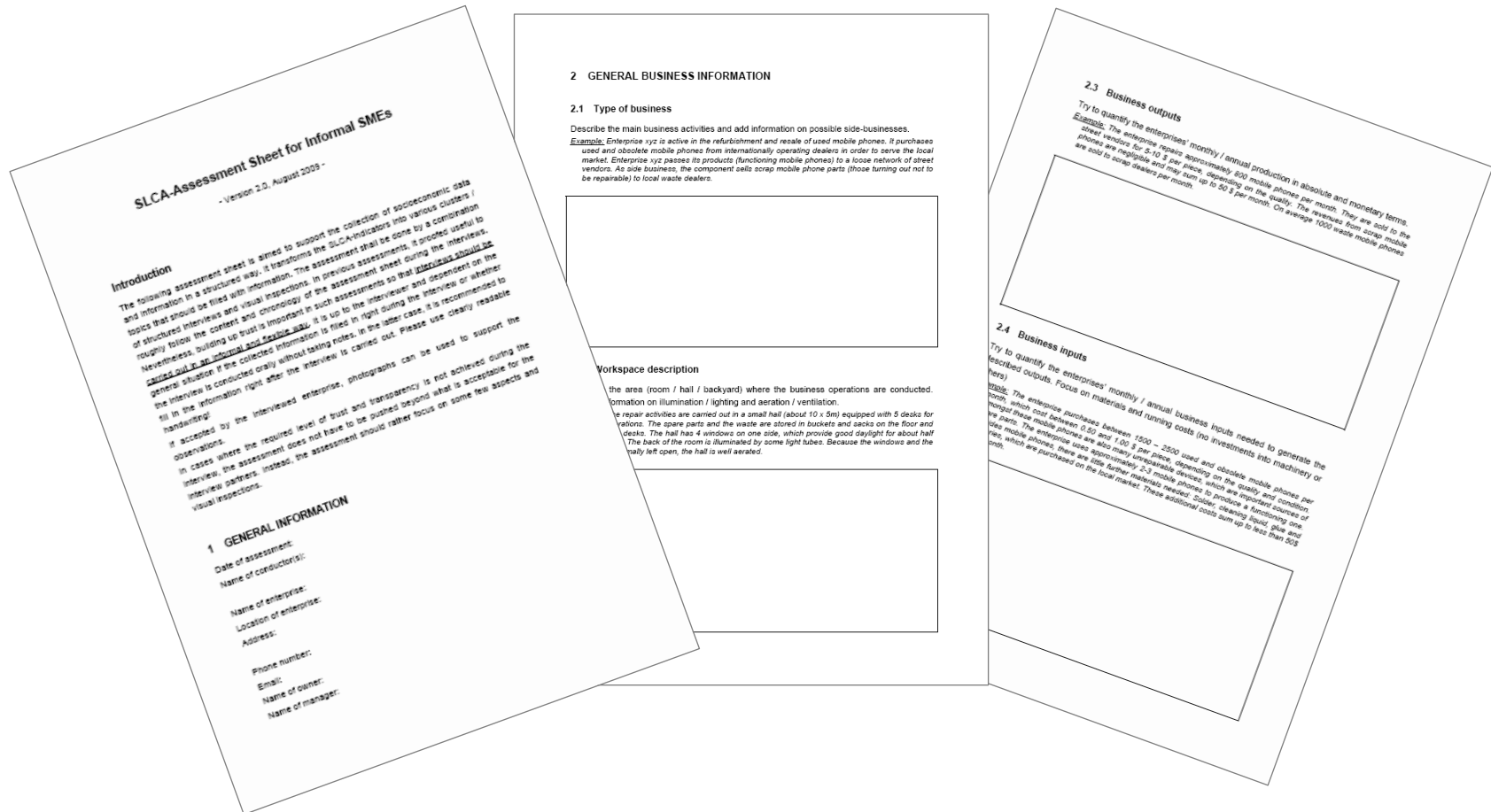
### **B: Impacts on the local community**

- B 1 Health & safety
- B 2 Human rights
- B 3 Indigenous rights
- B 4 Community engagement
- B 5 Social & economic opportunities

### **C: Impacts on society**

- C 1 Public commitments to sustainability issues
- C 2 Unjustifiable risks
- C 3 Employment creation
- C 4 Vocational training
- C 5 Corruption
- C 6 Social & environmental minimum standards for suppliers and co-operation partners
- C 7 Interference in sensitive political issues
- C 8 Contribution to the national economic development
- C 9 Armed conflicts
- C10 Transparency
- C11 Intellectual property rights

# Methodology application



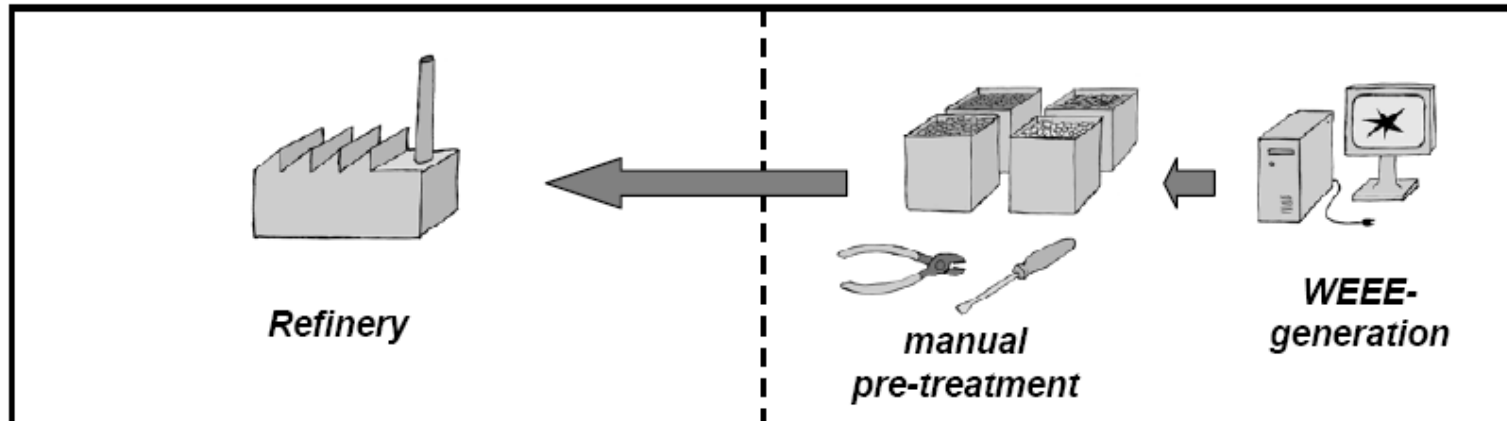
- ➔ Close co-operation with researchers from EPA-Ghana and GreenAd
- ➔ Merge of the two methodologies & adaptations to the specific requirements

## **Feasibility for developing local niche markets for environmentally sound management**

Basic assumptions:

- A large amount of people relies on the refurbishing sector
- E-waste is not managed in an environmentally sound manner
- Focus on refurbishing / recovery of materials is still in its infancy

## Feasibility of international recycling co-operations



### Opportunities:

- Improved management of hazardous substances
- Increased resource efficiency / closed material cycles
- Reduced GHG emissions
- Reduced pressure on mining
- Income generation
- Possibility to invest in social & environmental standards



Some risks to be addressed:












- Does the model generate additional incentives for further illegal e-waste-imports?
- What are the challenges from changing material compositions?
- What about cherry-picking?
- What about sustainability in times of fluctuating resource prices?
- ...



Framework for implementation:

- Issues to be considered
- Quality requirements
- Suitable business structures
- Health & safety aspects
- ...

# Project Timeline

		2009	2010					2011	
	Stakeholder Meetings (tbc)								
	Component 1								
	Component 2								
	Component 3								
	Draft National Strategy Plan								
	Final Country Reports								
	Final Project Report								

## Special situation for Component 3 in Ghana



VROM-Inspectie  
 Ministerie van Volkshuisvesting,  
 Ruimtelijke Ordening en Milieubeheer



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