

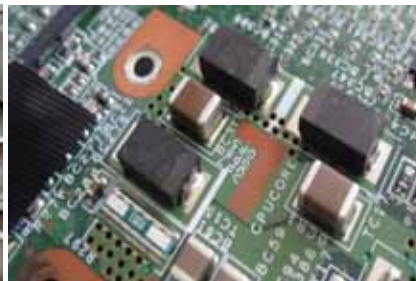


The Best of two Worlds Project (Bo2W)

Project introduction

Dr. Matthias Buchert, Oeko-Institut

Bo2W Closing Event, Berlin, 24 September 2015



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The Project

Global Recycling of Strategic and Essential Metals: Best-of-two-Worlds Approach (Bo2W)

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Project Duration: June 2012 – October 2015

Currently, critical metals are lost...



Source: Oeko-Institut

... with threat to environment and human health



Source: Oeko-Institut



The Challenge

Challenges

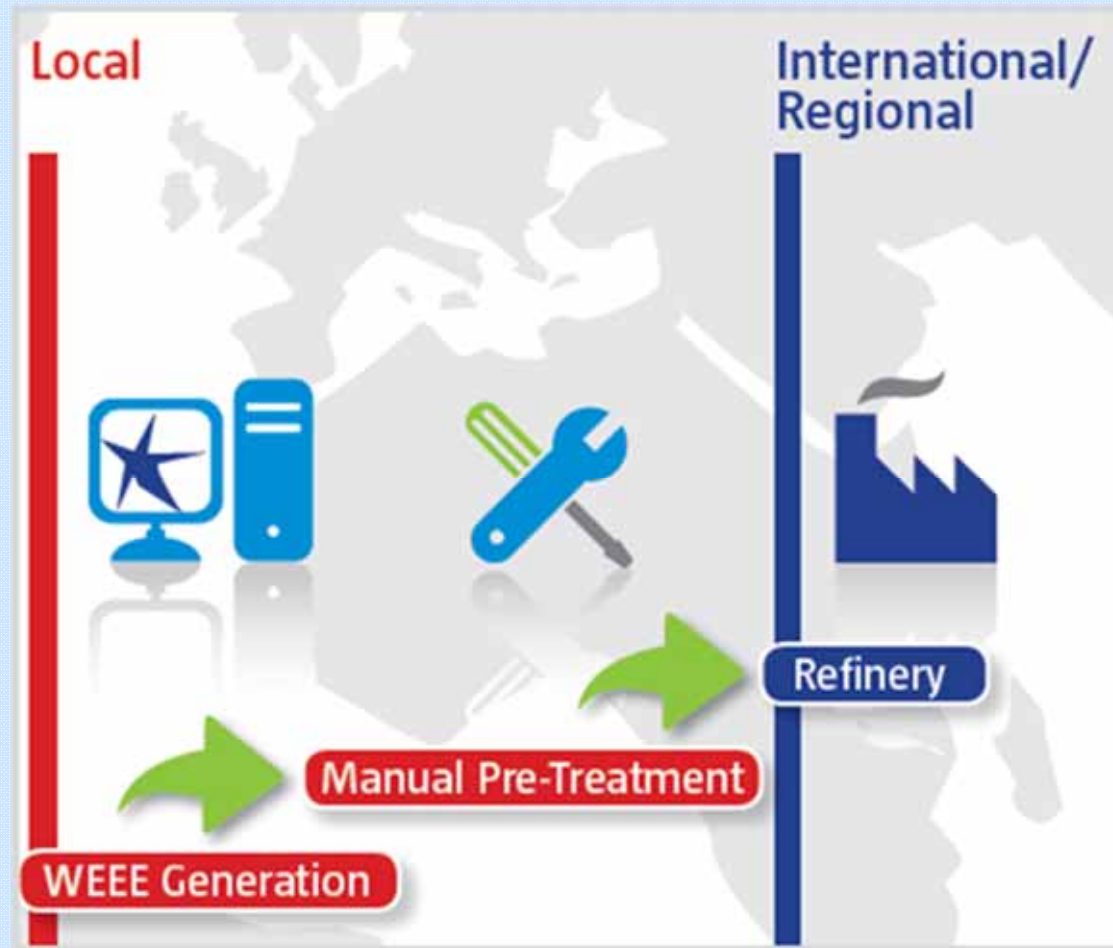
- To reduce threats to human health and the environment
- To create better working conditions
- To close the loop of valuable metal cycles
- Focus of the project: electronic waste and end-of-life vehicles



Source: Oeko-Institut

The Project

**Bo2W
Approach**



The Bo2W Approach: a sustainable business model

Benefits

International co-operation to combine strengths of recycling systems in developing countries and emerging economies with those of industrialized countries

Benefits:

- **Improved** management of hazardous substances
- **Increased** resource efficiency / closed material cycles
- **Reduced** GHG emissions
- **Increased** income and employment generation in Egypt and Ghana
- **Increased** investments in social & environmental standards

Developing sound recycling

**Bo2W
Approach**

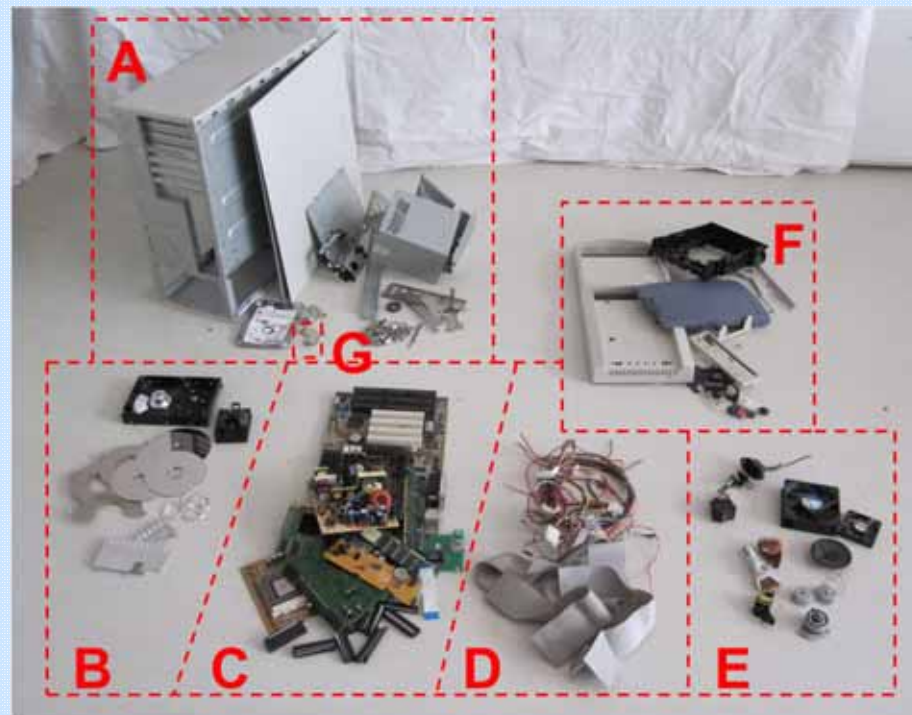


Source: Oeko-Institut

The Bo2W Approach – an example

**Bo2W
Approach**

Solution for Information and Communication Technologies (ICTs): the key factor is careful dismantling and separation



- A: Steel scrap
- B: Aluminium scrap
- C: Printed circuit boards
- D: Cables
- E: Copper-steel scrap
- F: Plastics
- G: Magnets

Source: Oeko-Institut

Project objectives

Objectives

- First lots of **complex and environmentally dangerous fractions** will be carefully dismantled in Ghana / Egypt and treated in European refining plants (state-of-the-art technology).
- Other fractions like steel will be **treated locally** in Ghana / Egypt in available industrial capacities.
- It's key to adopt a **holistic approach** and consider all the fractions coming out of e-waste.

Many Thanks for Your Attention!

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Find more information about the
Best of two Worlds Project (Bo2W):
www.resourcefever.org