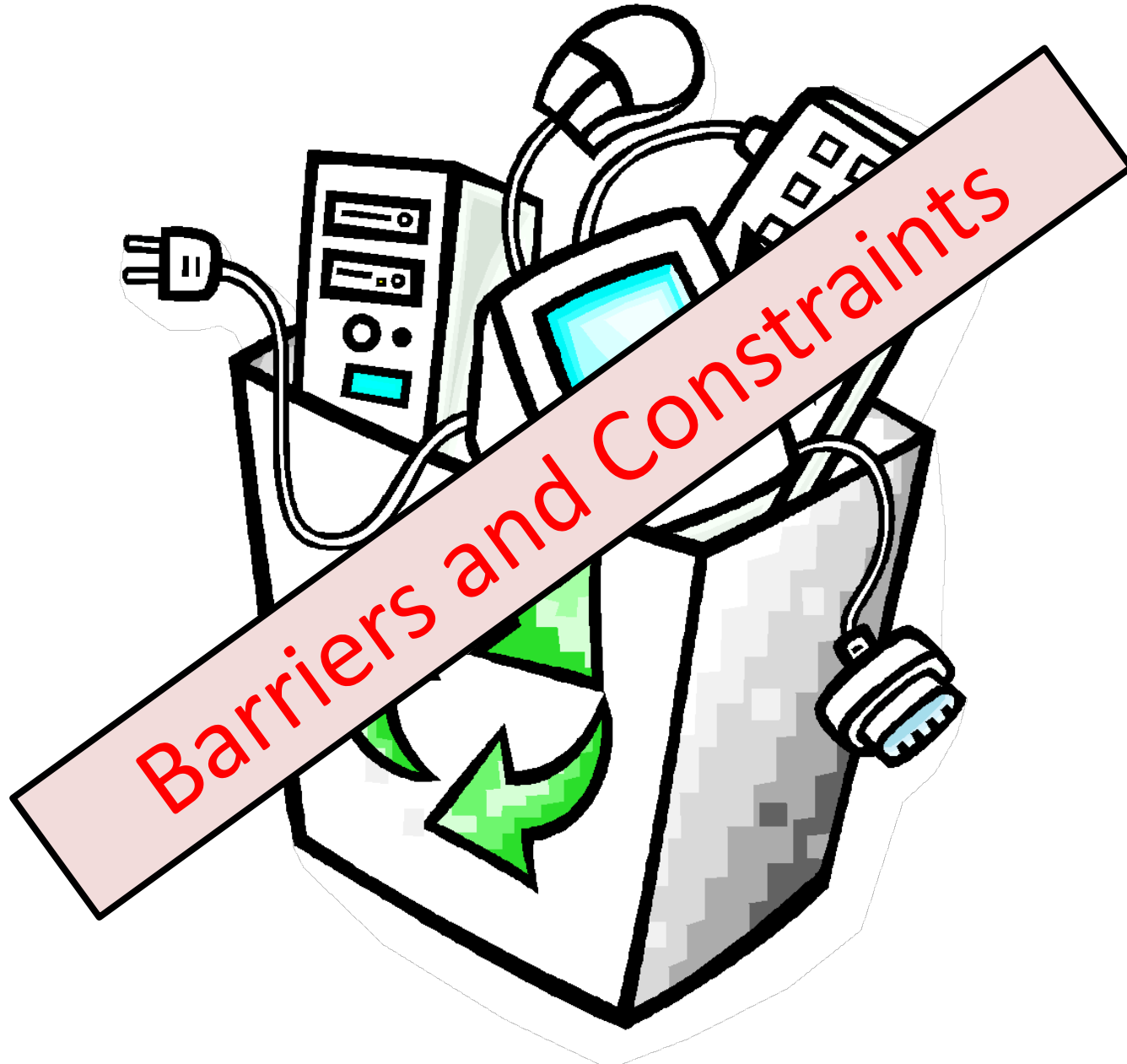
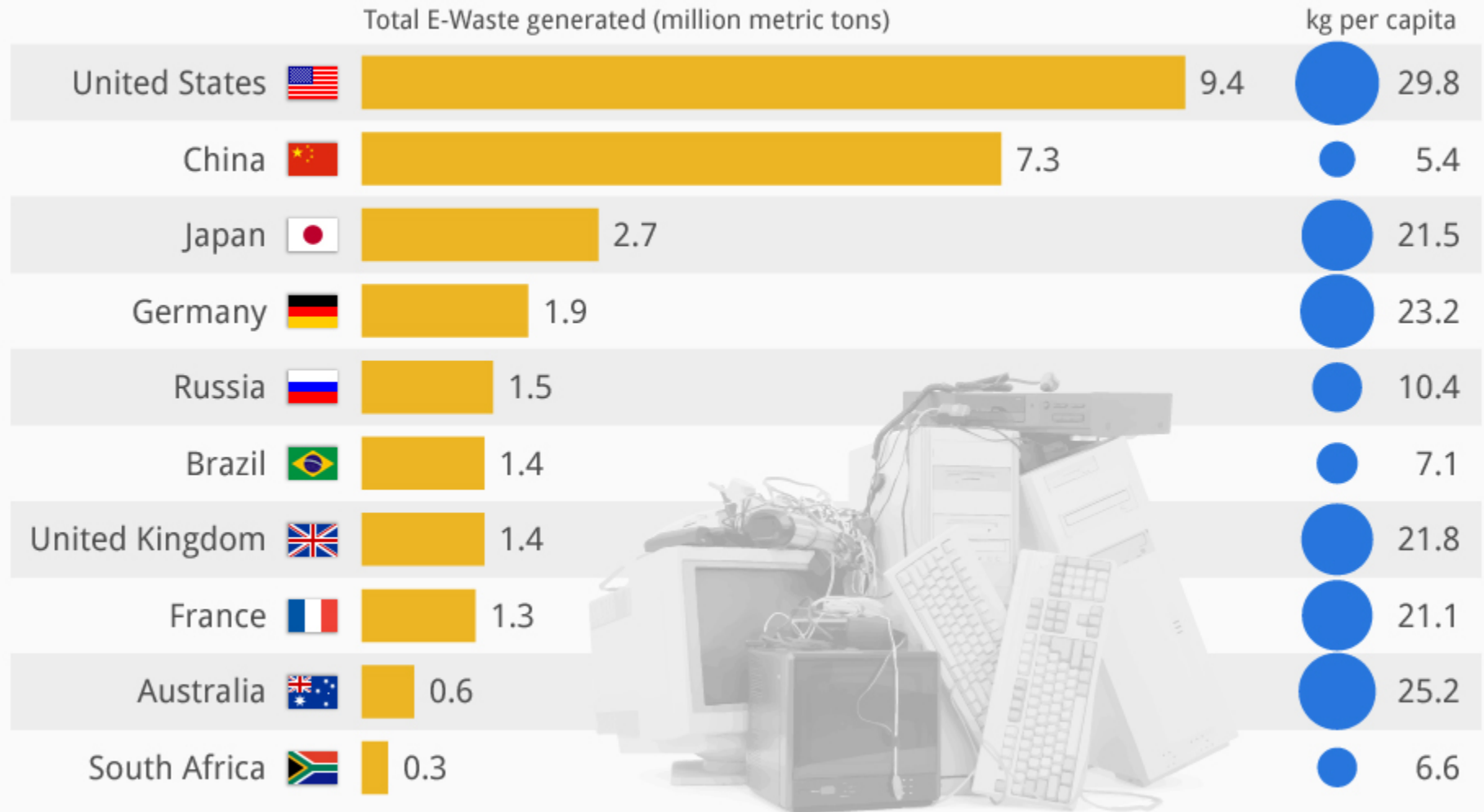


# Re-use Electronics?



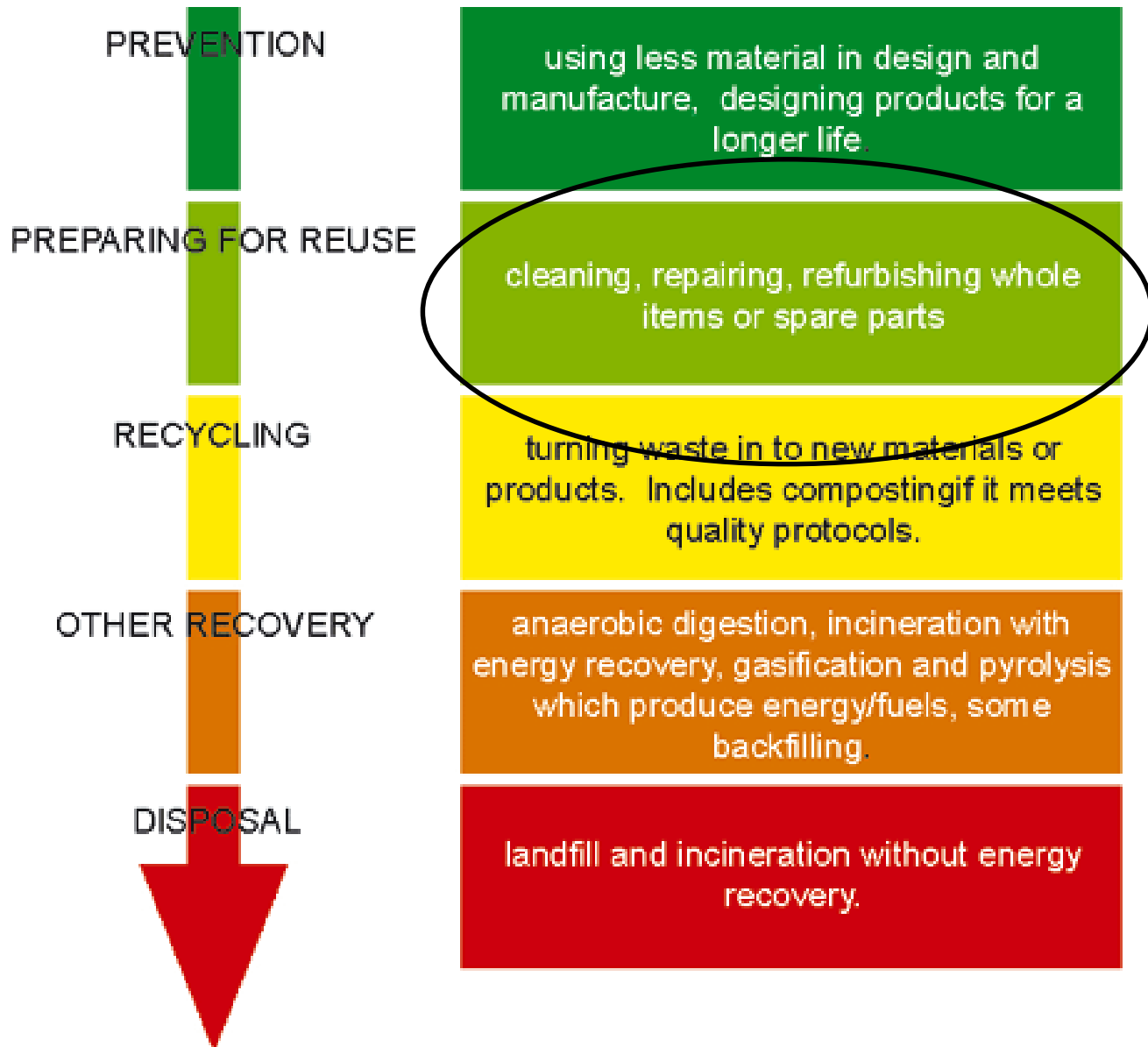
# 49 Million Tons of E-Waste Were Generated in 2012

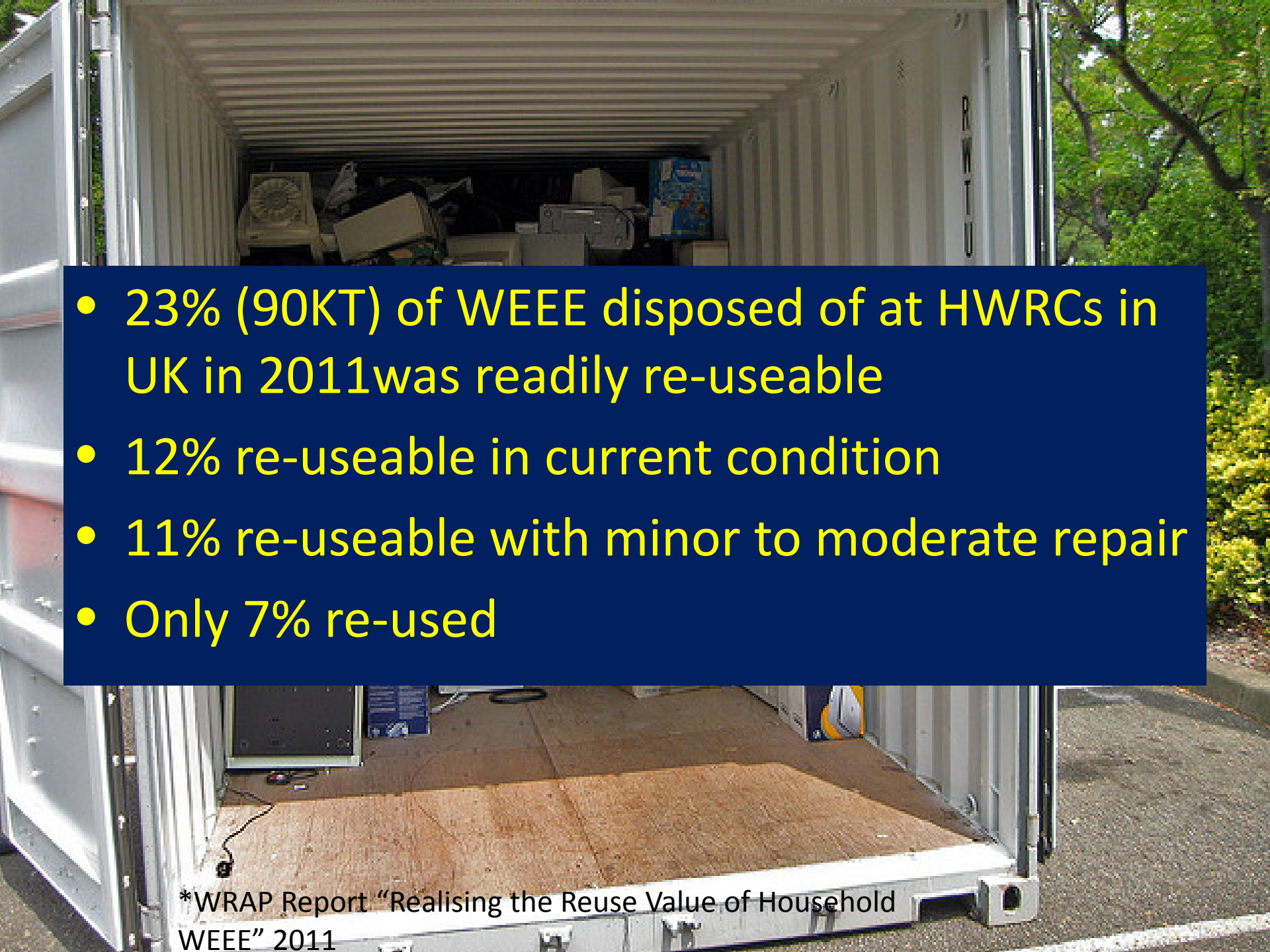
Amount of electronic waste generated in selected countries in 2012









- 
- 23% (90KT) of WEEE disposed of at HWRCs in UK in 2011 was readily re-useable
  - 12% re-useable in current condition
  - 11% re-useable with minor to moderate repair
  - Only 7% re-used

\*WRAP Report "Realising the Reuse Value of Household WEEE" 2011



Internal closed loop

The top section of the image is a collage. On the left, there's a workshop with shelves and equipment. In the center, a dark blue banner contains the text 'Internal closed loop' in yellow. To the right, a person is using a tool on a device. Below this, another dark blue banner contains the text 'Repair Shops' in yellow. The bottom part of this section shows cardboard boxes, some with 'SHARP' branding, and a workbench with various tools and components.

Repair Shops

Household waste recycling centres (HWRCs)



Charities and Social Enterprises

The bottom section of the image is a collage. On the left, a group of people are gathered under a green canopy at an outdoor recycling center. In the center, a workbench is shown with various tools, a fan, and a bottle of 'Denatured Alcohol'. On the right, a person in a green t-shirt is working on a device. A dark red banner at the bottom contains the text 'Charities and Social Enterprises' in yellow.



WEEE



USED EEE

**Charities and Social Enterprises**



Cleaned/Refurbished/Repaired and retested EEE

**USERS**





General Product Safety  
Regulations 2005 (GPS)

Electromagnetic Compatibility  
Regulations 2006 (EMC)

Low Voltage Electrical  
Equipment(Safety) Regulations  
1994 (LVD)

The Restriction of the Use of  
Certain Hazardous Substances  
in Electrical and Electronic  
Equipment Regulations 2012  
(RoHS)



What is the fault or damage?

Can we fix it (do we have the knowledge and skills)?

Is it worth it?  
Is there a market?

Does it function after repair and is it safe?



Soldering

Wire stripping

Crimping

Continuity testing



More complex disassembly

More advanced fault finding

Reading circuit diagrams

Component removal and replacement



Advanced electronic knowledge of the product

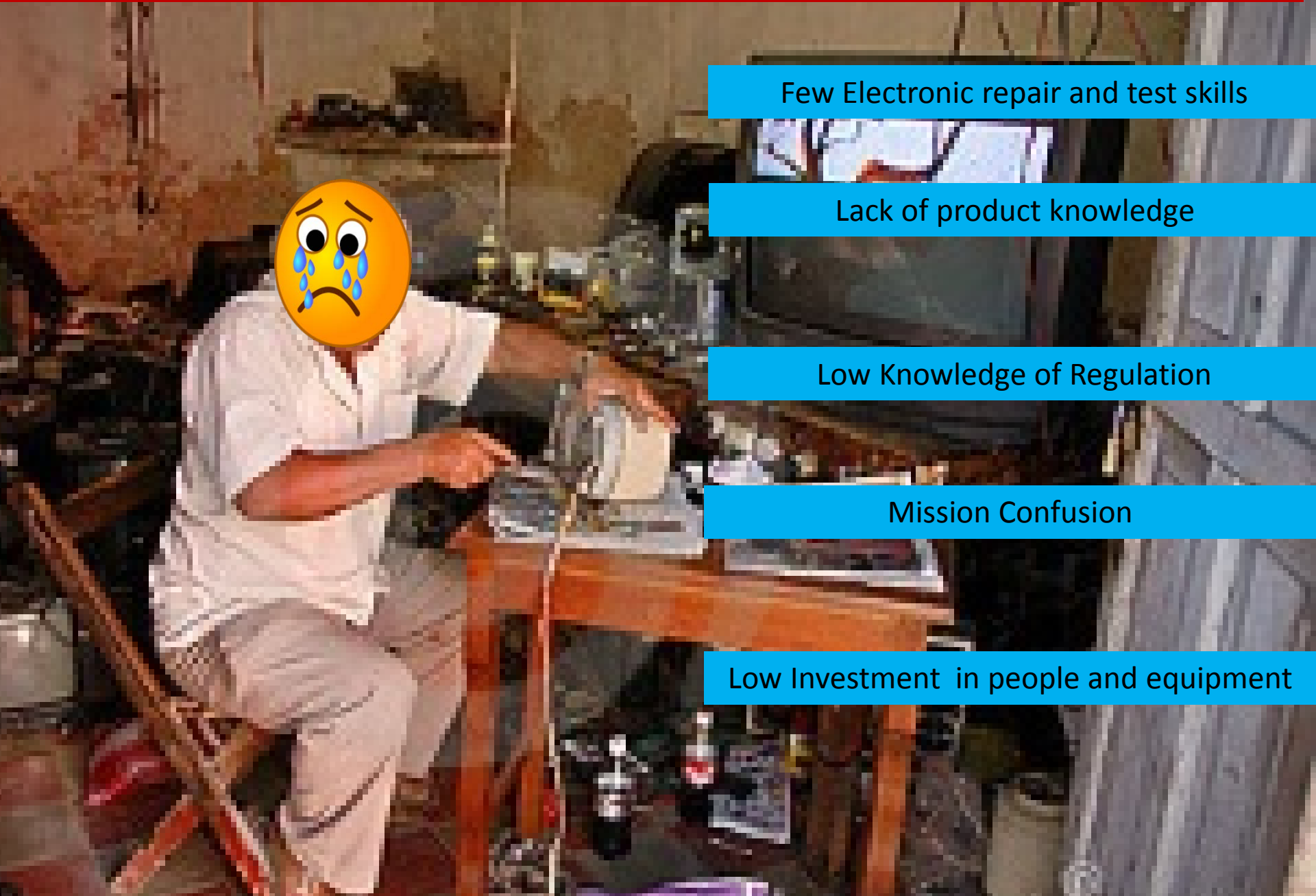
Complex fault finding

Use of Oscilloscopes or Spectrum Analysers



All repaired EEE must  
be PAT tested before  
sale  
Must be carried out by  
Competent trained  
person

# Charities and Social Community Schemes



Few Electronic repair and test skills

Lack of product knowledge

Low Knowledge of Regulation

Mission Confusion

Low Investment in people and equipment