



# **Gleiche Voraussetzungen für die Wirtschaft**

## **- Wie kann das erreicht werden? -**

Klaus Hieronymi

Global Resource Efficiency Strategies

Hewlett-Packard Company

**Kolloquium: 20 Jahre Anlaufstelle Baseler Übereinkommen**



ent Company, L.P.  
ject to change

# **Basel Convention**

**Developing Countries should not be  
the dumping ground of Industrialized  
Countries**



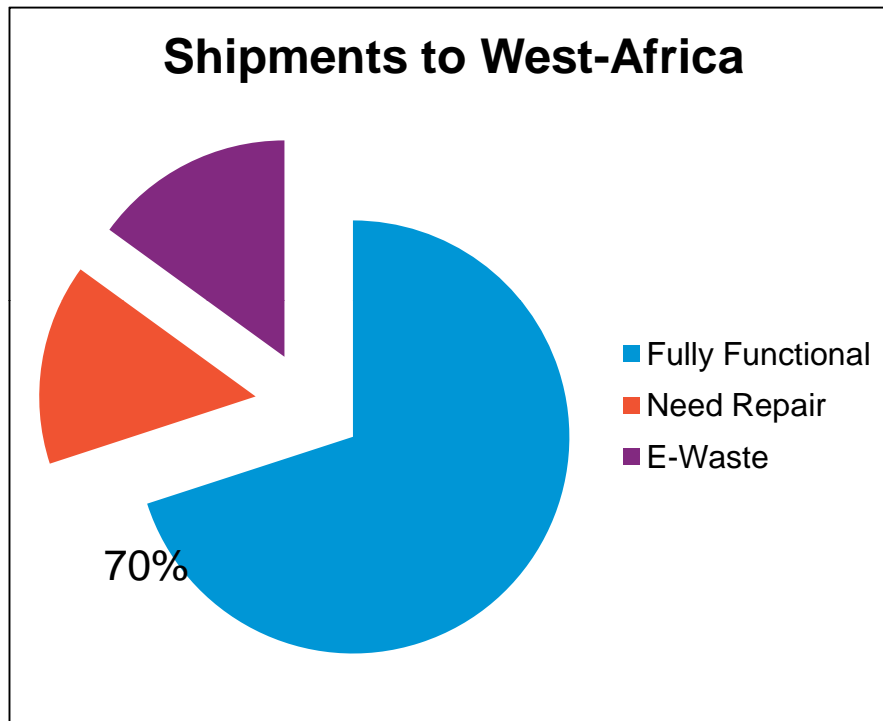
# E-Waste in Developing Countries

Until approx. mid of last decade, significant profits could be made in shipping E-Waste illegally to developing countries

Due to drastic increases in raw-material prices, recycling of E-Waste is **now profitable within industrialized countries**



# E-Waste in Developing Countries



**There is no business case to export E-Waste to developing countries anymore.**

**.... however, the amount of E-Waste in these countries is increasing significantly**

Where are WEEE in Africa. EMPA / UNEP Feb. 2012



# E-Waste in Developing Countries

## **Today's source of E-Waste in developing countries:**

- End of life 2nd hand products
- New products sold in country
- E-Waste from industrialised countries

**Independent of the source, the real issue is the lack of recycling / waste treatment facilities in developing countries**



# E-Waste in Developing Countries

- Activities of OEM's -



## East Africa Compliant Recycling (EARC) an initiative of DELL, HP, Nokia & Philips

Treatment Centre & Trading Platform  
operating under strict recycling standards

Collection Point X 50

### 2 short videos worth watching

EACR Mombasa Pilot (Mar 2012)

EACR Collection points (Dec 2013)

<http://www.youtube.com/watch?v=oZ41Lg19Z2U>

[http://youtu.be/IFRduGczA\\_U](http://youtu.be/IFRduGczA_U)



# E-Waste in Developing Countries

## - Activities of OEM's -



20 collectors for  
each Collection  
Point



Collection Point X 50



Treatment Centre & Trading  
Platform

operating under strict recycling  
standards



### 2 short videos worth watching

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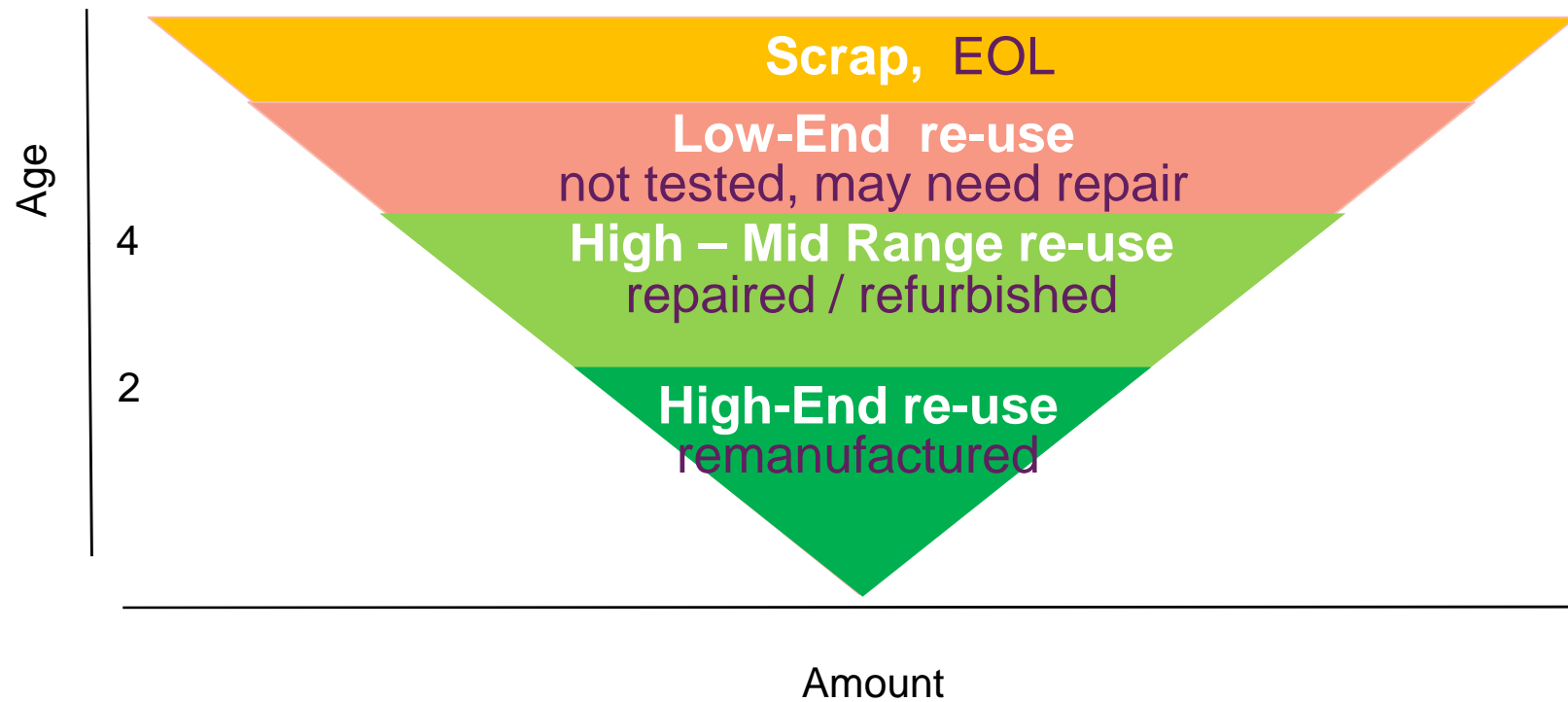
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# Returns





# Players

Age

4



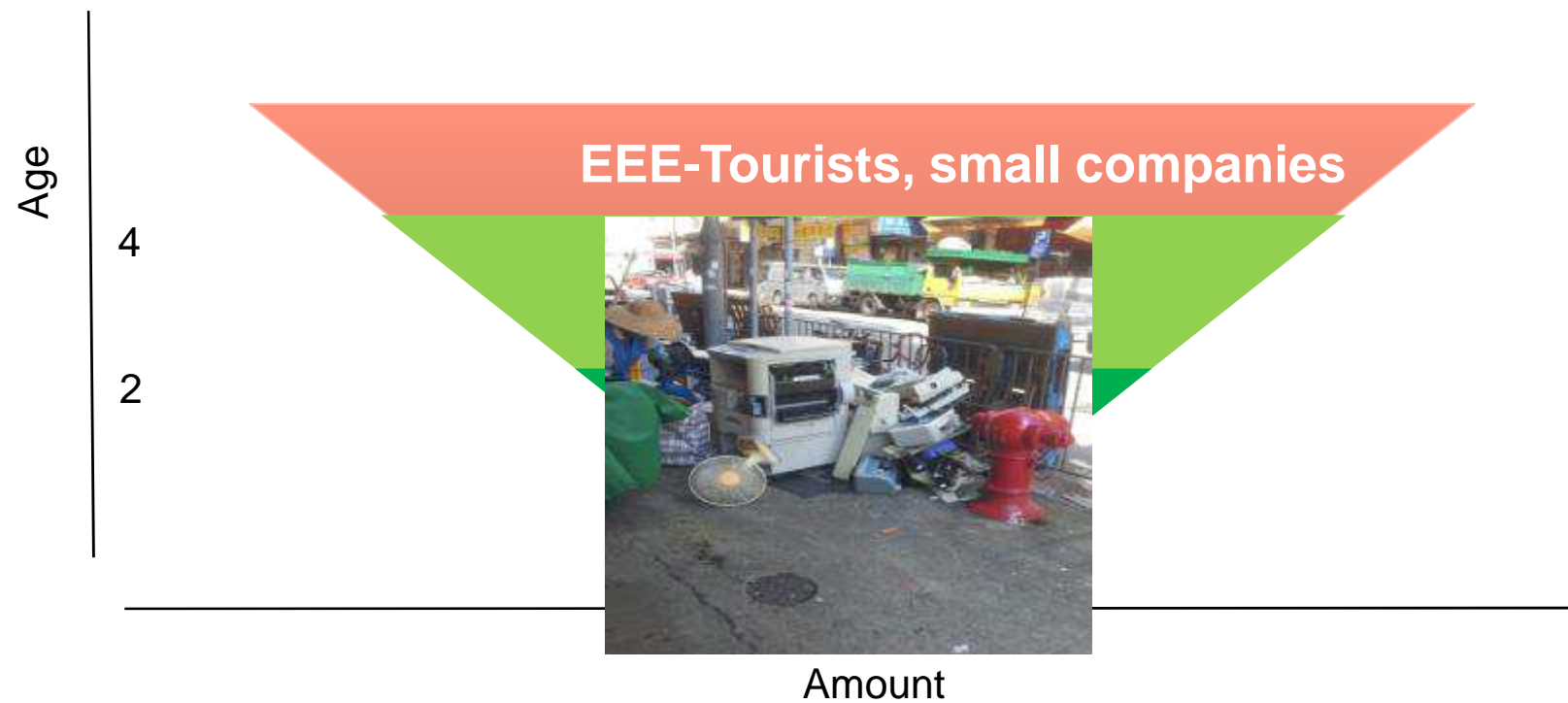
Brokers  
OEM's

OEM's

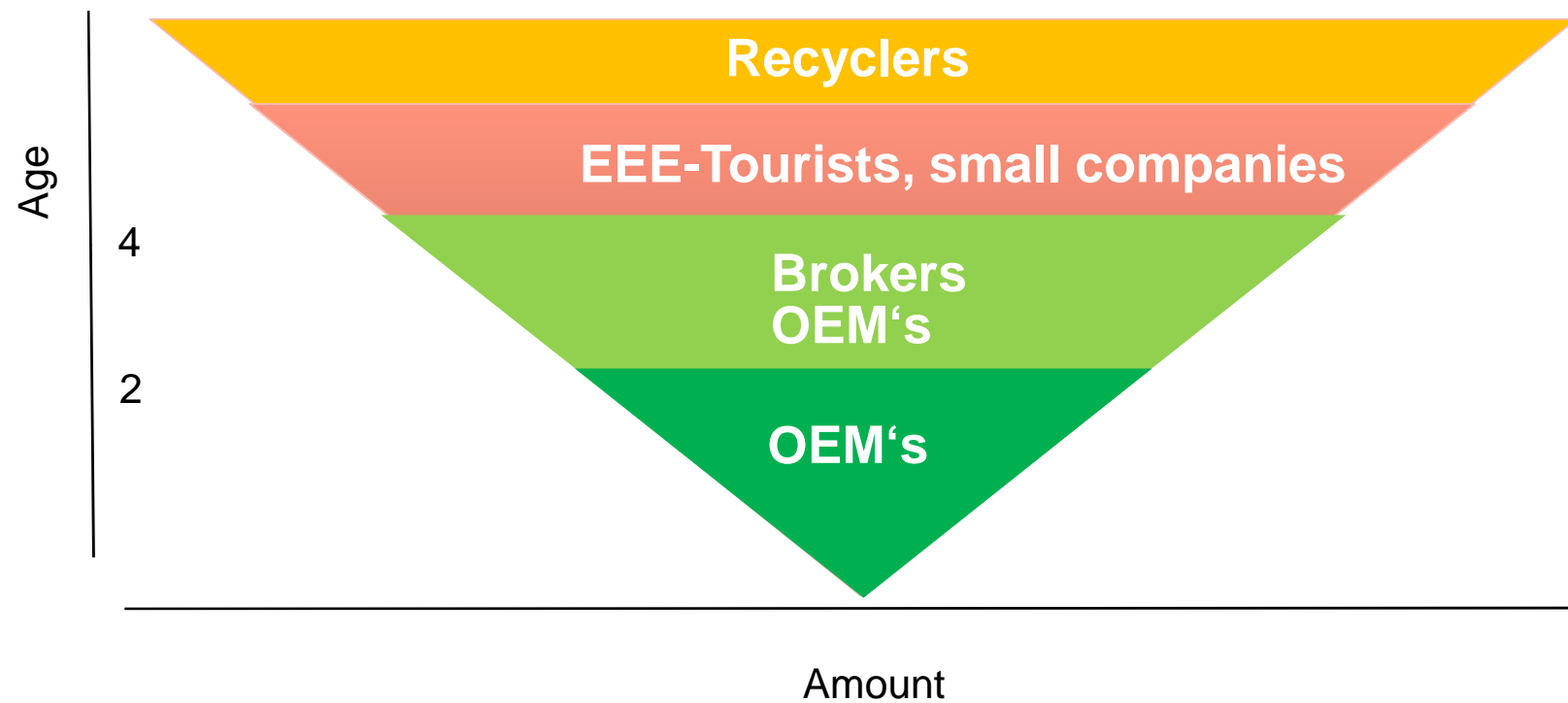


Amount

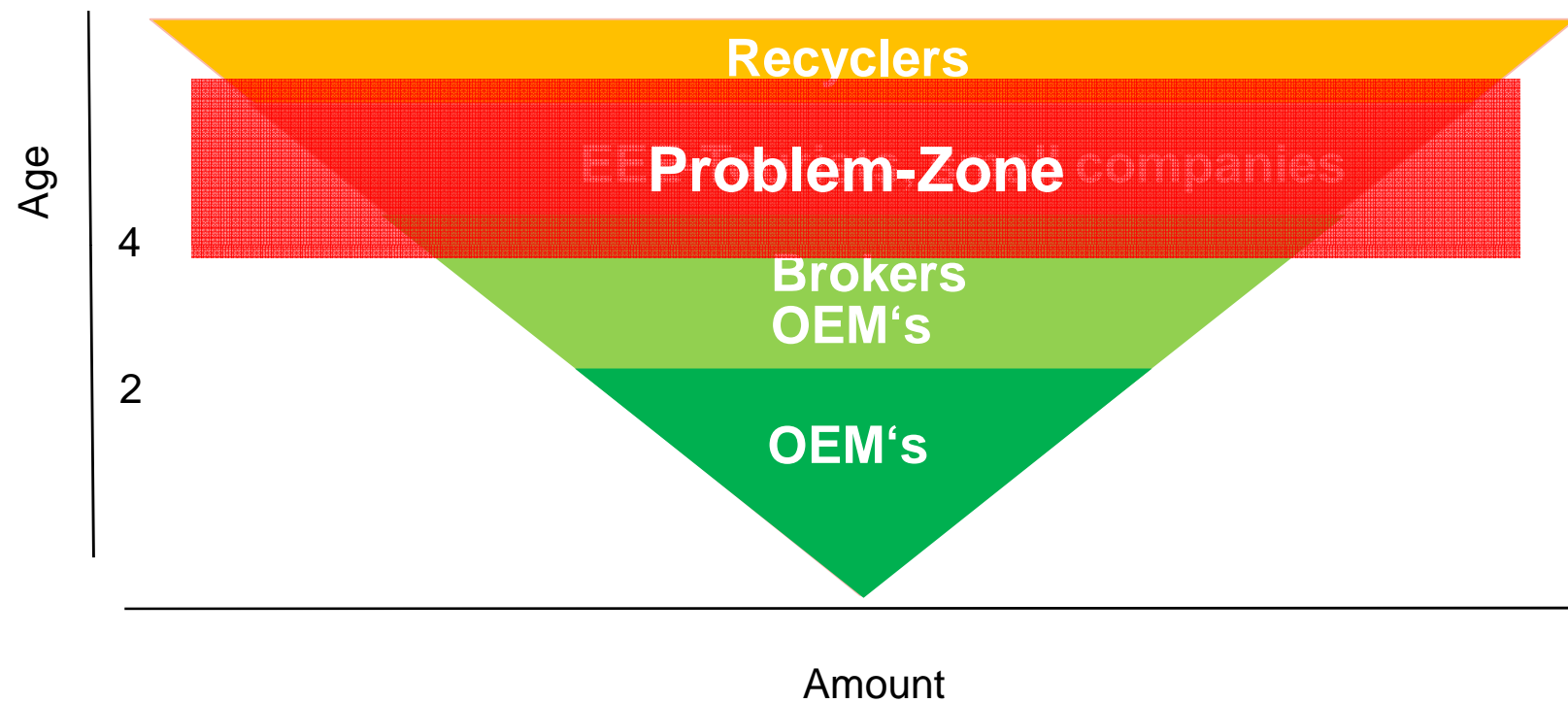
# Players



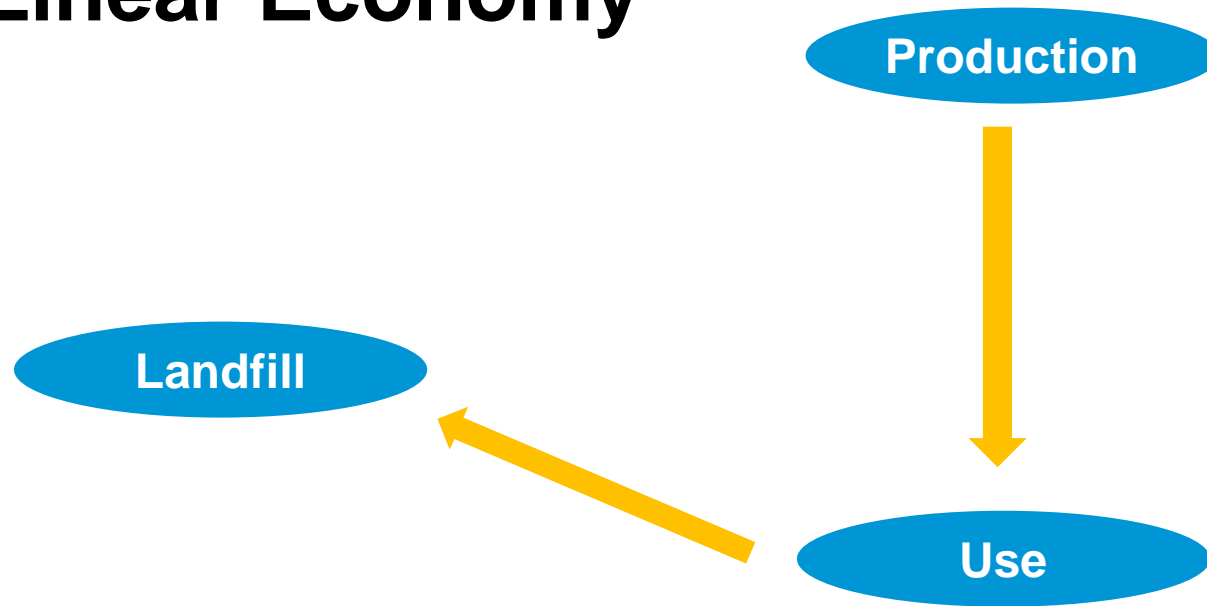
# Players



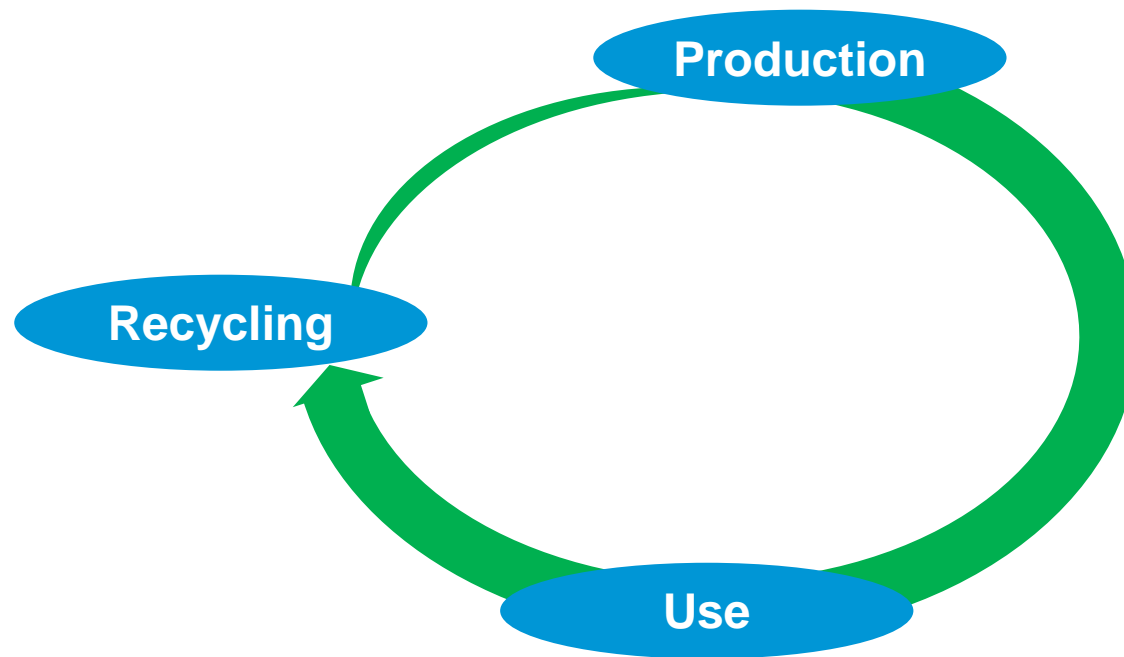
# Players



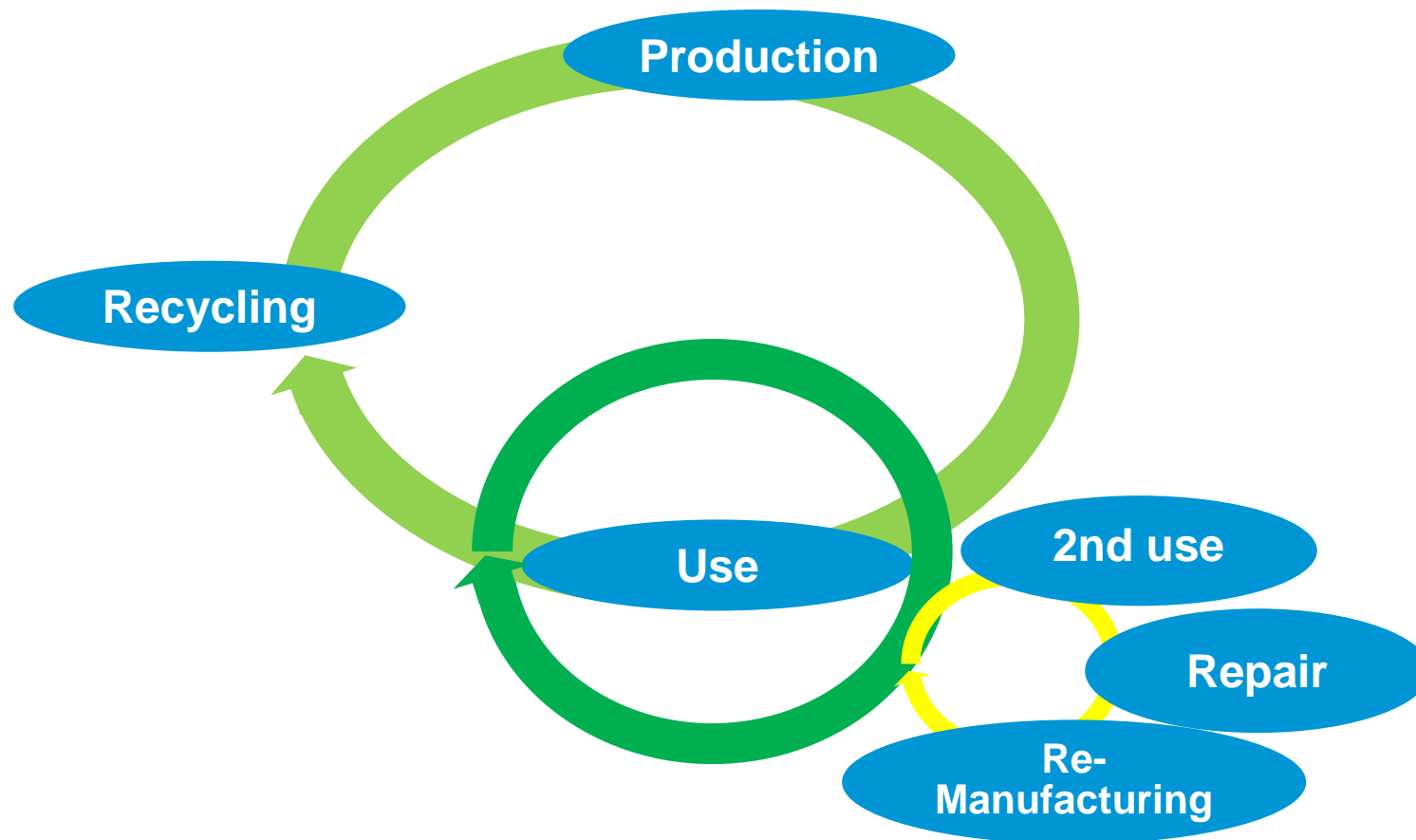
# Linear Economy



# **,Limited' Circular Economy**



# Kreislaufwirtschaft



# Customer decision criterion is price

**Repair** competes with **New**

If repair cost > xx% of new new wins !

XX% differs on product category, age of product, innovation cycles





# OEM strategies to lower cost

- Product Design
- optimized logistics
- Automation
- ‚Line Operation‘
- central Service facilities (regional, global)
- same labor cost as in production of ‚new‘
  - Service- and Productionfacilities in same countries



# Legislative Issues

- some countries ban
  - sale of re-manufactured products
  - Use of re-manufactured components
- transboundary transports for repair / re-manufacturing



# Basel Convention

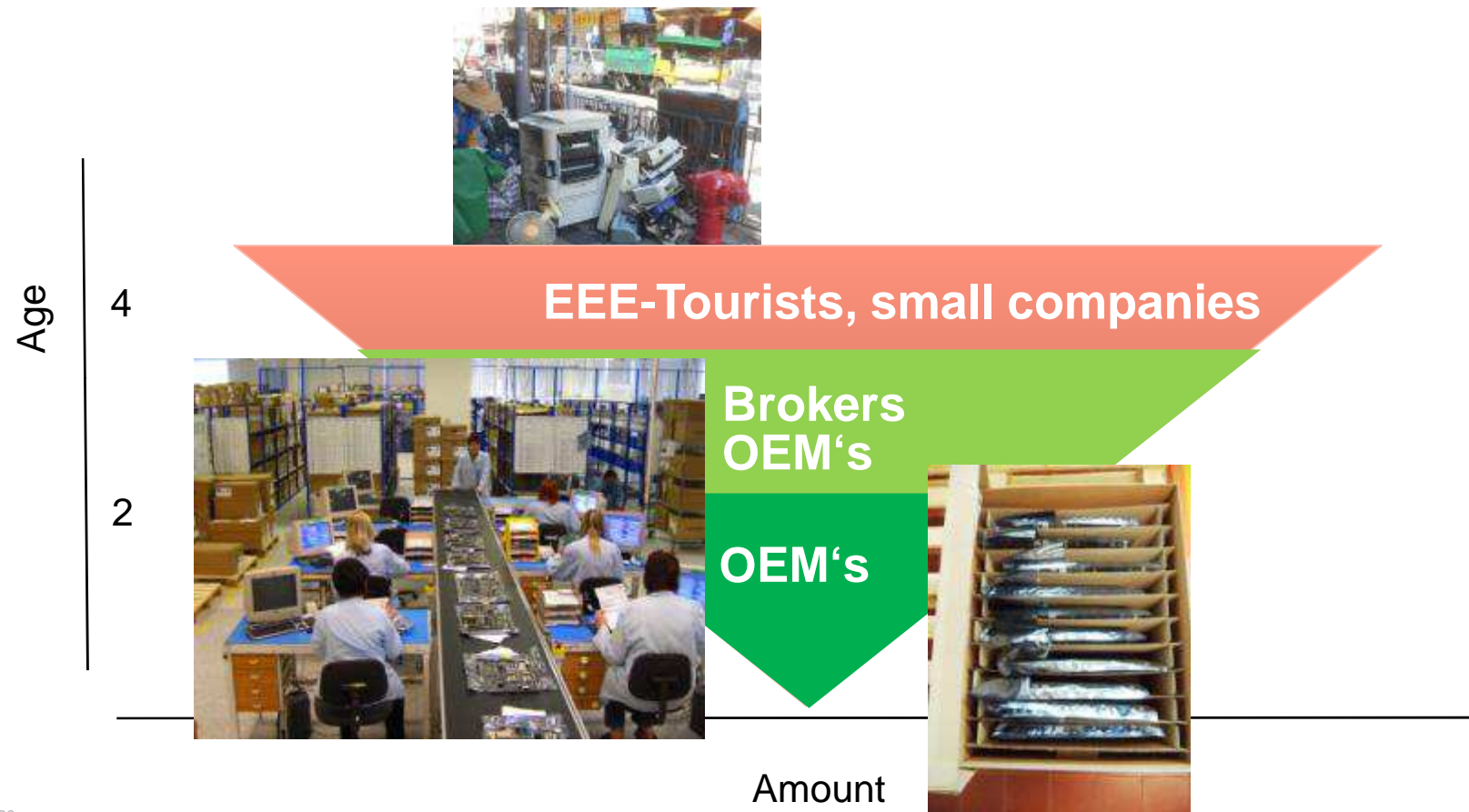
(Draft Technical Guidelines to differentiate between products & waste)

**All non-fully functional  
(electrical/electronic) products and  
components are waste !**

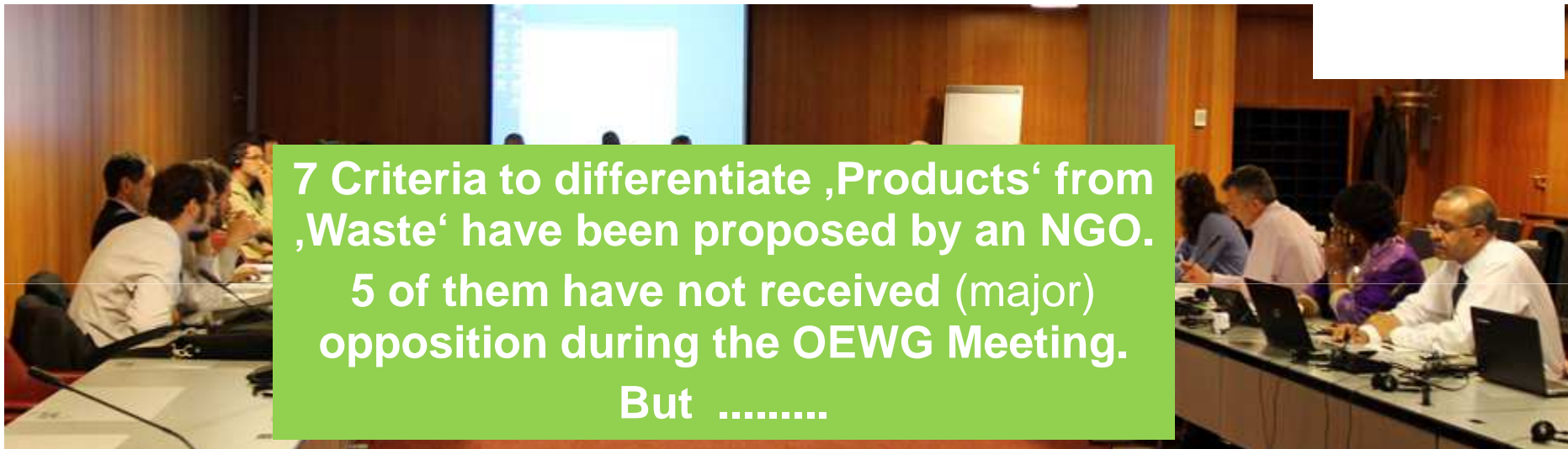


- Logistics cost will double
- Timing is unpredictable due to 'pre-Consent Process'
- Ban of shipments to non Annex VII countries

# Level Playfield ?



## Principles for a solution have been discussed in the OEWG-Meeting of the Basel Convention

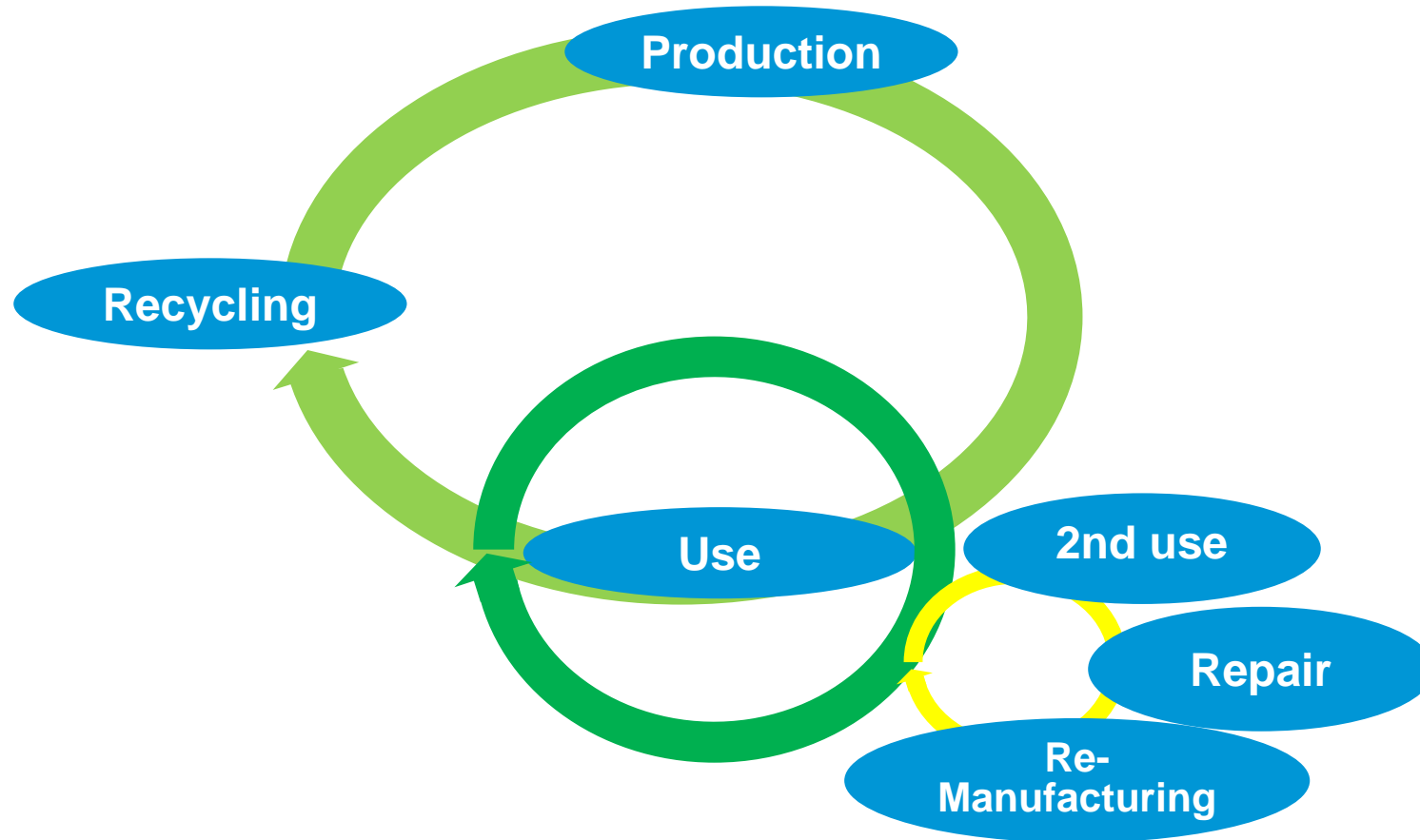


**the EU (and it's MS) need take a much more positive and constructive approach than proposing a 'fallback' position that every country might do what they want.....**

# EU-Proposal

The proposal of the EU to allow countries to create individual criteria is contradicting the Basel Convention who drives for common rules across the globe / regions and will be a sever cut to circular economy models

# Circular Economy



**The future of repair / refurbishment / remanufacturing  
EEE is depending to a large extent on the Basel  
Convention**

**Thank You !**

