

ITU Green standards week

Innovating today for a sustainable tomorrow.

E-waste in emerging markets, challenges and opportunities

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From this...

"Poisoning the poor – E-Waste in Ghana" Greenpeace 2008 NIGERIA: Electronic Waste – An Emerging Silent Killer" *Shout Africa 2011*







To this...

E-waste is a resource

Creates Employment Opportunities





Managed in a <u>safe</u> and <u>environmentally sound</u> manner!



From this...

Outdoor dumping and landfilling







To this...

All e-waste collected and treated responsibly







Extended Producer Responsibility Principle (EPR)

It aims to ensure that businesses who place products on the market take responsibility for those products once they have reached the end of their life.

Solutions should be based on EPR...



Producers alone cannot prevent this

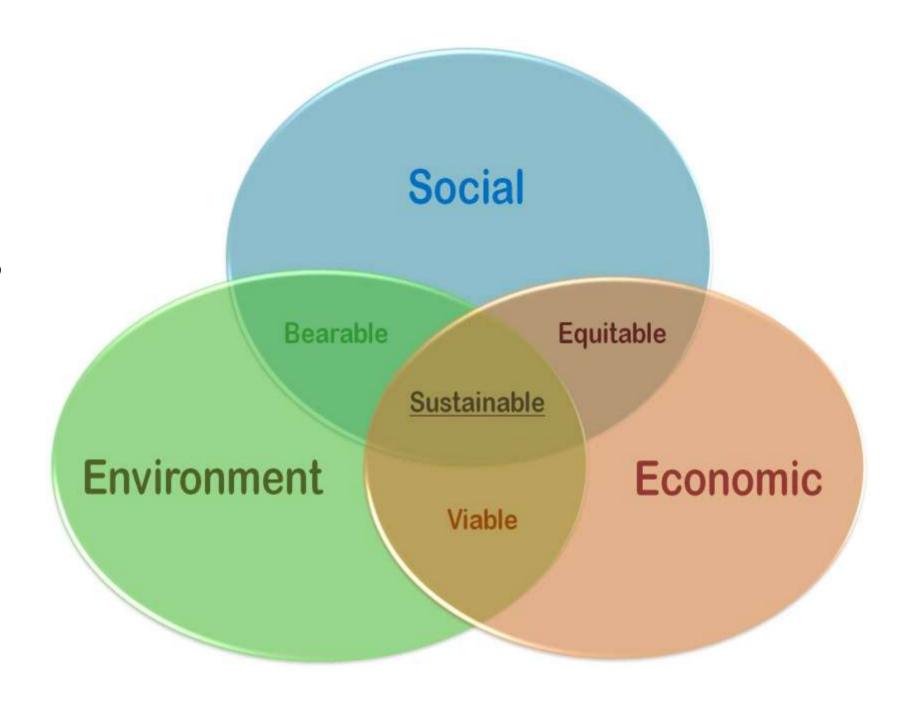






Collaboration is essential!

- The solution will revolve around changing mindsets
- Stimulating drivers for sustainable business models to recover value from all e-waste
- Creating markets for fractions of e-waste which currently have no market

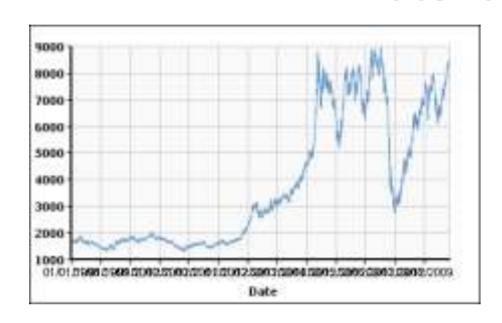


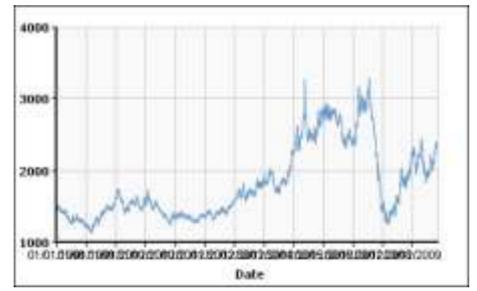
EPR is also about enabling these developments

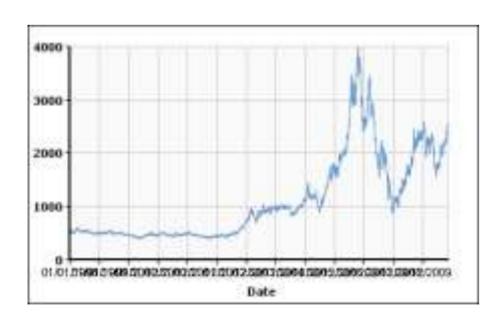


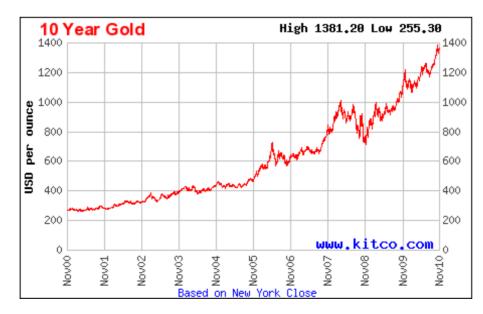
E-waste as a resource!

Material Prices









E-waste becomes a resource



Considered by many as valuable

Urban mining

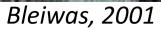
Gold in 1ton PC's

Is equivalent to

Gold in 17 tons of ore









Urban mining



WEEE collections in some African countries

Country	Year	E-waste Generated (t/yr)	Thereof Collected (%)
Nigeria	2010	1,100,000	50%
Ghana	2009	179,000	96%

Source: UNEP/SBC/EMPA/Oko-Institute

Collection appears to be high in Africa due to the involvement of the informal sector BUT

High collection rate does not mean high material recovery



So what is going wrong?

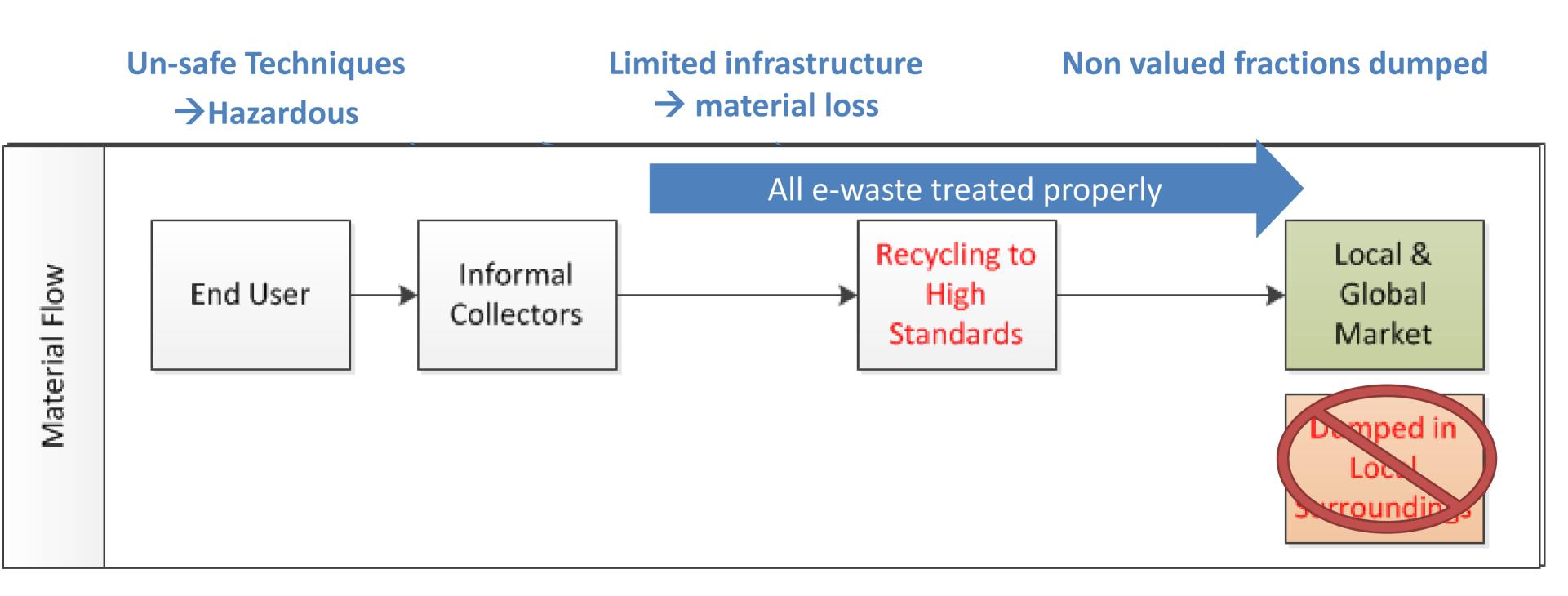








Three issues about e-waste management today...



Solutions need to tackle all three issues



Solutions

E-waste policy in Africa needs to be approached from a different angle

- Stimulate development of markets
- Involves all stakeholders
- Collection program with informal sector
- Incentives to encourage collection of whole e-waste
- Maximize collection of all materials
- Applying proper standards







HP's Africa E-waste Program since 2007

Research

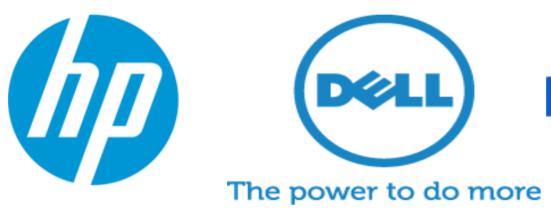
Education

Establish recycling facilities

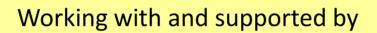


African Informal E-waste Alliance

<u>OEMs</u>







- Blue print for Africa revolved around key principles
- Engaging with authorities

Recycler Pioneer





 Objectives: Develop and scale up practical solutions for e-waste management on the ground!



Key Principles to proper regulation

• E-waste = resource → Involvement of the informal sector creates jobs



- Improper treatment is the issue
 - → Need recycling standards

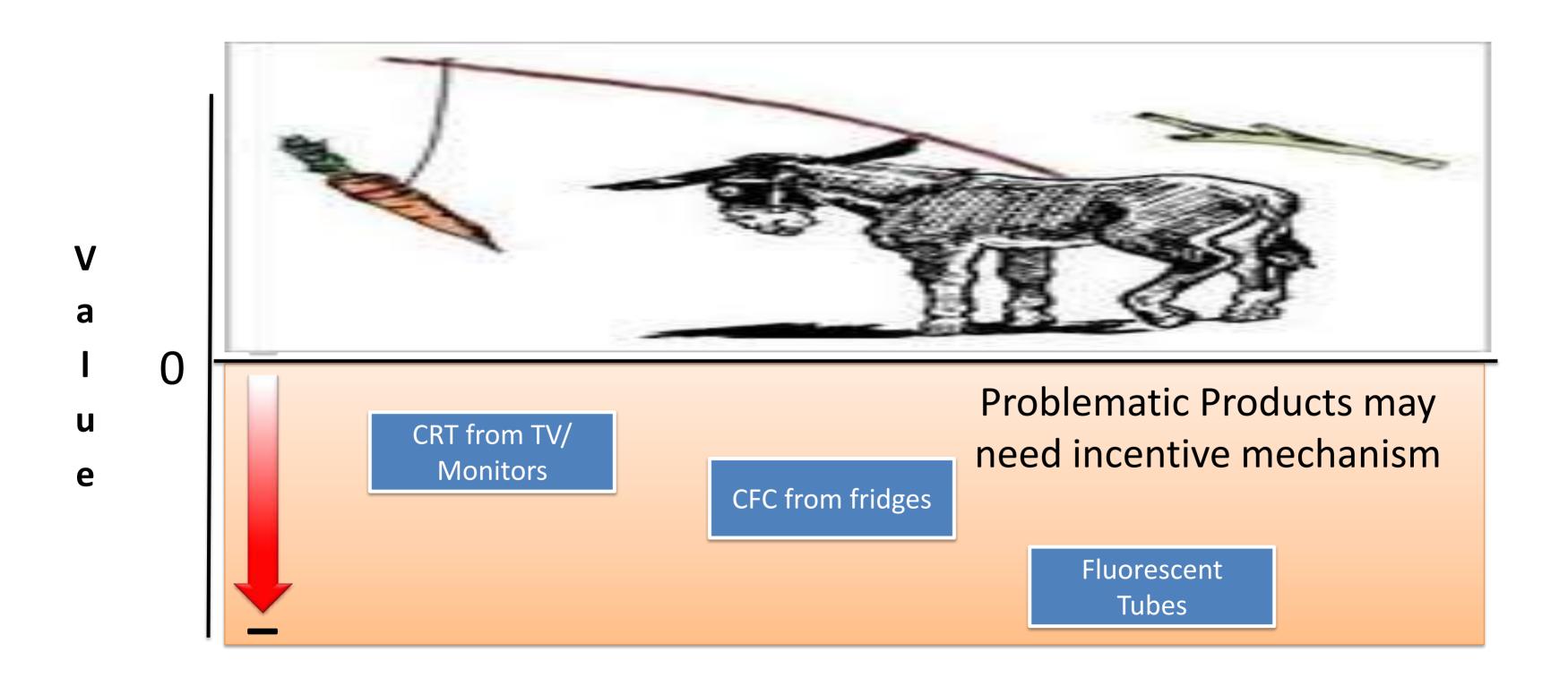






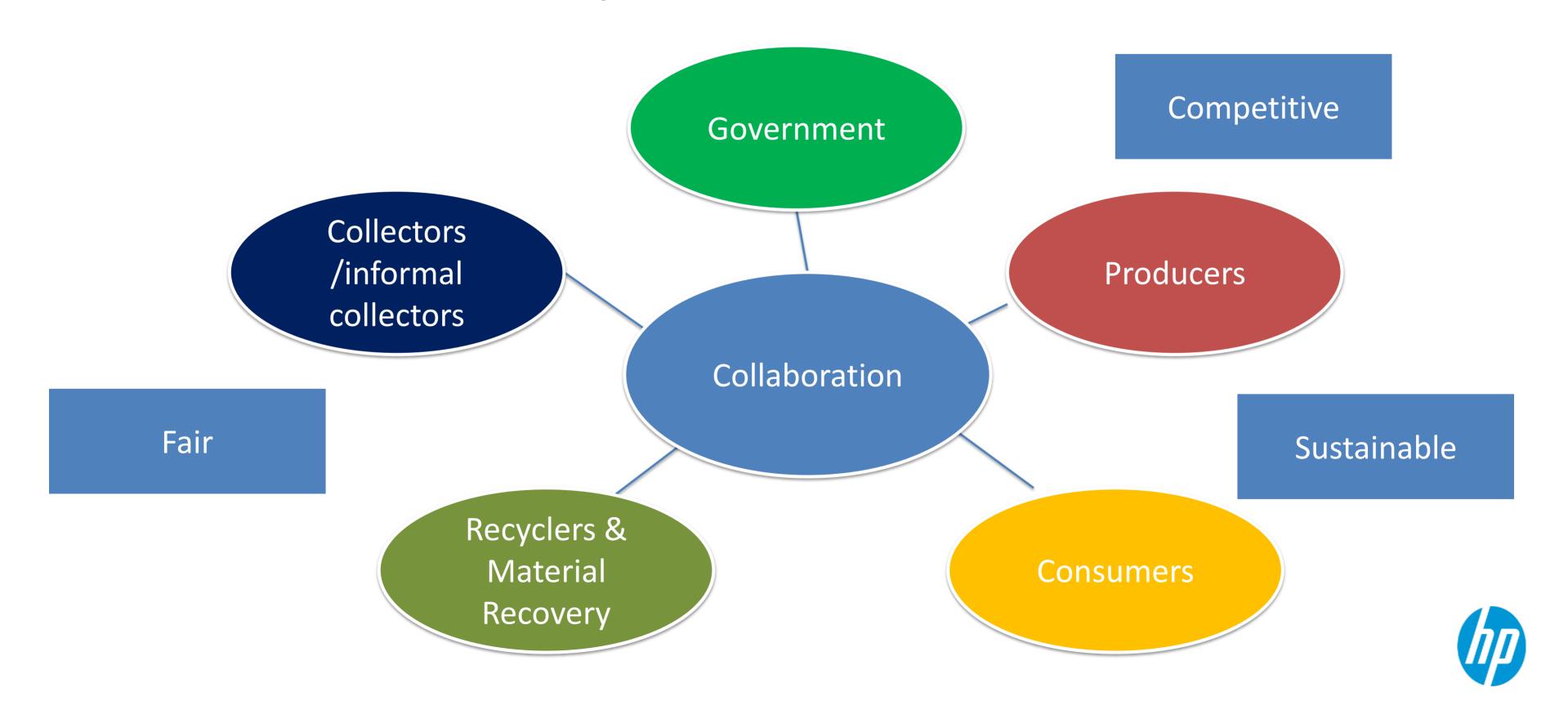


Some <u>fractions</u> or products may be <u>'problematic'</u>. Producers may need to finance an <u>incentive mechanism</u> to ensure they are collected



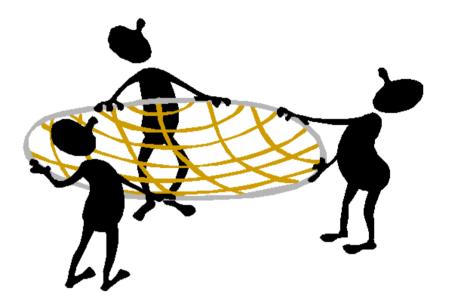


Producers do not have full control → collaboration is key to enable EPR



Producer Responsibility when WEEE has a Value?

- Producers have an Important role in creating incentives for the collection of problematic fractions.
- EPR is about creating and stimulating viable competitive markets for e-waste material, recovery and recycling
- Working with stakeholder creating markets at the source of the problem.







Looking ahead...

Through proper standards, mechanisms and enforcement...

...all e-waste will be collected and treated by 3rd parties as a profitable business...

...but we are not there yet...and there is much work to do to reach this vision...





Thank you

For more information: Visit hp.com/recycle
Or contact daniel.seager@hp.com









