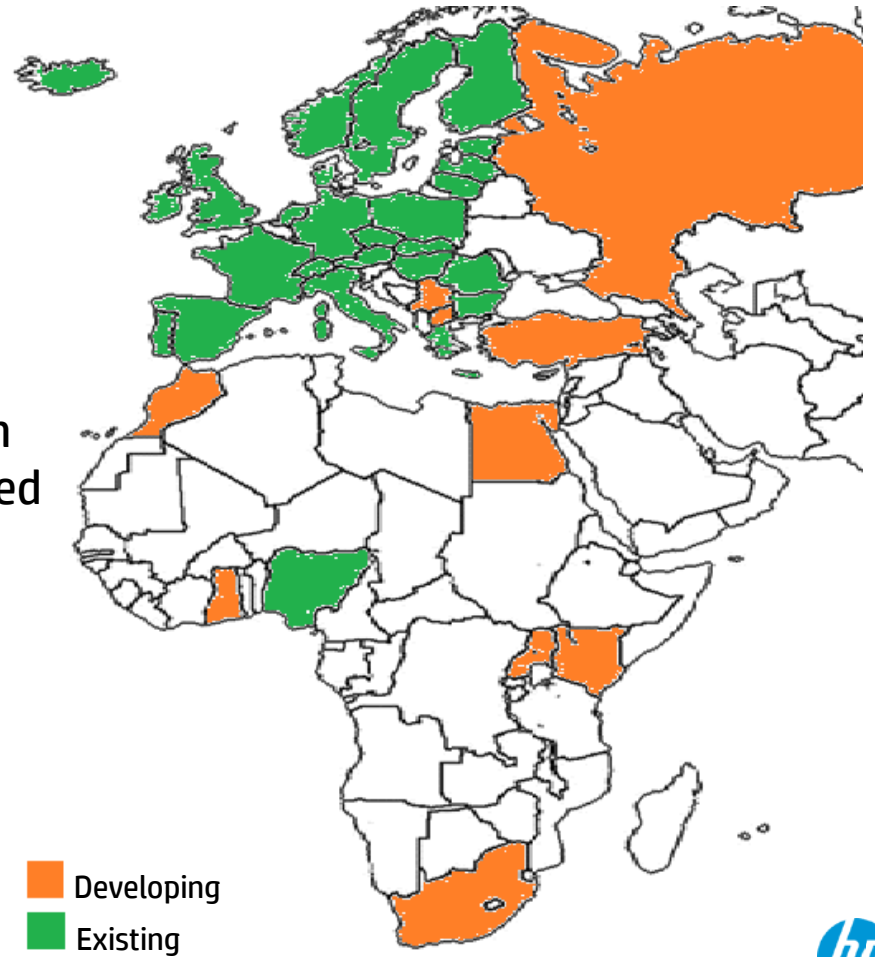# e-waste
… resources
… opportunity

Catherine Martial

Environmental Manager, hp France

ITU panel - Paris, Sept 18th 2012

EMEA: e-waste regulations spreading beyond EU

- EU has the WEEE directive since 2004

- Emerging markets have no enforced regulation nor infrastructure.... though several are tempted to follow EU model

- Risk: EU centric model adopted in Africa

- Challenge: getting the recipe right for Africa... and the EU !

Developing

Existing

e-waste is a resource

rich in materials

- **Copper**
- **Aluminum**
- **Iron**
- **Precious Metals**

Recycling Balance Desktop PC (simplified)

	Weight	Revenue
FE & Al	5.241 g	1,41 €
High grade PC-Boards	448 g	4,03 €
Low Grade PC-Boards	397 g	1,39 €
Chips & Processors	68 g	2,55 €
Harddisk Drive	598 g	0,45 €
Cables	198 g	0,28 €
Other value containing components	444 g	0,27 €
Plastics w/o FR's	122 g	0,03 €
Plastics for incineration	226 g	-0,02 €
Other fractions with cost	0 g	- 0,00 €
Labour	3 min	-1,50 €
Net Revenues	**7.742 g**	**8,61 €**

e-waste now contains precious metal richer than found in ores
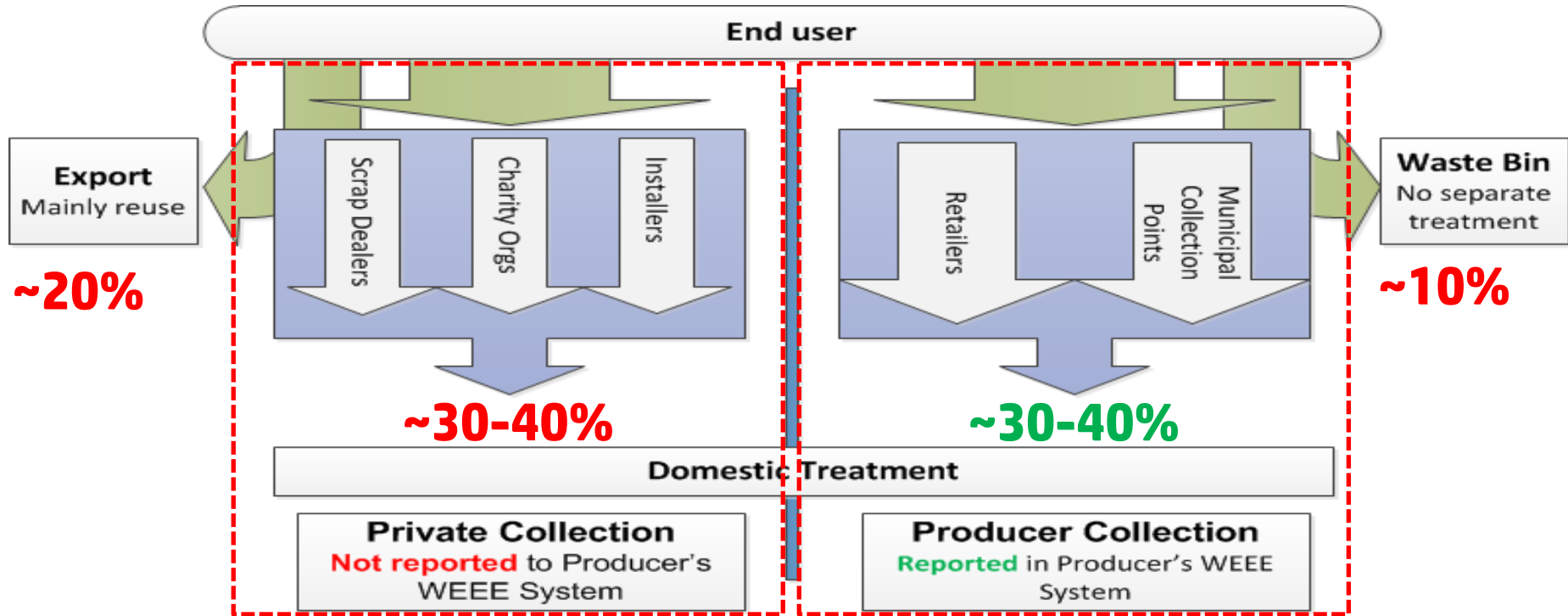
how successful is the WEEE directive ?

Only 1/3 of e-waste in Europe is collected by producer systems!

Is collection managed badly….

or is it **badly measured** ?
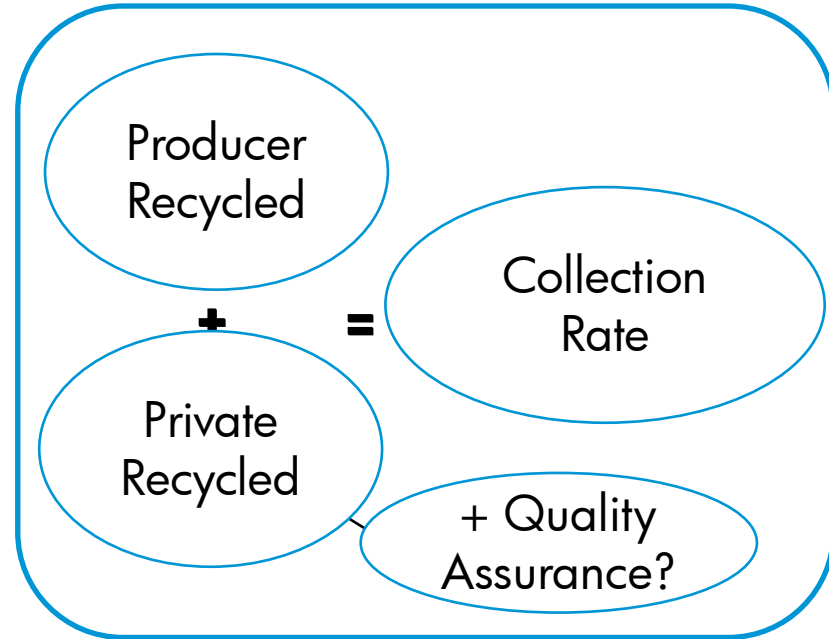
what we know about WEEE flows in the EU ...

End user

Export Mainly reuse

Scrap Dealers

Charity Orgs

Installers

Retailers

Municipal Collection Points

Waste Bin No separate treatment

~20%

~10%

~30-40%

~30-40%

Domestic Treatment

Private Collection Not reported to Producer's WEEE System

Producer Collection Reported in Producer's WEEE System

~70-80% not 30-40%

how to tackle the 'collection target' issue in EU ?

→ measure ALL flows of WEEE

- This includes all WEEE that has been properly treated regardless of whether it was treated by a recycling system managed by producers or whether it was treated by other WEEE actors or recyclers.

- MS's have 3 years to set up such a system.
  - And avoid any profiteering

- Producers and recyclers are willing to work together with MS's in order to implement an acceptable system.

Producer Recycled

Private Recycled

+

=

Collection Rate

+ Quality Assurance?

Looking ahead…

Through <u>proper standards</u>, 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…

➔ EPR (*) solutions can be the tools to support this : we need an adequate implementation of EPR !

(*) Extended Producer Responsibility

hp's Africa e-waste program since 2007

- Research

- Education

- Establish recycling facilities

Ghana

Nigeria

Kenya

RSA

EAST AFRICAN COMPLIANT RECYCLING

the African Informal e-waste Alliance

OEMs

Recycler Pioneer

- Blue print for Africa revolved around 5 key principles

- Engaging with authorities

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

Thank You for your attention !

Want to know more?

www.hp.com/environment
www.hp.com/recycle

Visit also EACR Kenya website
And Pan African e-waste Forum web site