CURRENT TRENDS OF E-WASTE MANAGEMENT

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• Introduction to BIR

• Environmentally Sound Management of Computing Equipment

• Obstacles to Environmentally Sound Management of Computing Equipment

• Future challenges
• Almost **900** companies and national federations

• In **72** countries worldwide
BIR – THE GATEWAY TO THE INTERNATIONAL RECYCLING BUSINESS!

Membership Spread 2012

www.bir.org/membership/overview/

BIR – REPRESENTING THE FUTURE LEADING RAW MATERIAL SUPPLIERS
A DIVERSIFIED COMMODITY STRUCTURE

4 Commodity Divisions:

- Ferrous metals
- Non-ferrous metals
- Paper
- Textiles
A DIVERSIFIED COMMODITY STRUCTURE

4 Commodity Committees:

- Stainless steel & special alloys
- Plastics
- Tyres
- e-Scrap
ENVIRONMENTALLY SOUND MANAGEMENT OF COMPUTING EQUIPMENT

Diagram: Flowchart of the process for environmentally sound management of computing equipment, including collection, evaluation, dismantling, separation, recovery, refurbishment, and disposal of hazardous materials and residues.
INFORMAL SECTOR COLLECTION & PROCESSING
OBSTACLES & POSS. SOLUTIONS TO ENVIRONMENTALLY SOUND MANAGEMENT OF COMPUTING EQUIPMENT

Lack of public awareness
- Increase public awareness

Absent or inadequate legal framework
- Duplicate best practice legal framework

Absent or inefficient collection of e-Scrap
- Encourage private sector collection, otherwise implement EPR

Landfilling of e-Scrap
- Ban landfill of e-Scrap

Illegal shipments of e-Waste
- Institutionalise inspections and enforcement

Increasing volumes of e-Scrap arising in developing countries of domestic origin
- Integrate informal sector in collection System - only ESM facilities – otherwise rely on EPR

Informal sector bad practices e.g. open burning, acid leaching, uncontrolled dumping of hazardous elements and hazardous wastes
- Governments & Agencies need to be encouraged to manage the ‘e-scrap’ controls at the speed of business

Hindrances to controlled movement of e-scrap to Environmentally Soundly Managed Facilities
INCOMPLETE LIST OF HYDRO- & PYRO- METALLURGICAL FACILITIES PROCESSING CIRCUITBOARDS

Teck
Xtrata

Terranova
Umicore
Aurubis
Boliden

Sipi

Asahi Pretech
Dowa
Matsuda
Mitsubishi
Mitsui
Nippon JX
Sumitomo
Tanaka

TES-AMM

LS Nikko

BIR – REPRESENTING THE FUTURE LEADING RAW MATERIAL SUPPLIERS
POTENTIAL FOR RECYCLING CRITICAL METALS – RARE EARTH ELEMENTS

Source: International Panel on Sustainable Resource Management of UNEP, 2010
CONCLUSION

THE WIPO PATENT LANDSCAPE REPORT ON E-WASTE RECYCLING TECHNOLOGIES IS A VALUABLE RESOURCE FOR POLICY MAKERS TO IDENTIFY SOLUTIONS TO THE ENVIRONMENTALLY SOUND MANAGEMENT OF E-WASTE.

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