

Overview of ITU Activities on E-Waste

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The E-Waste Problem

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Statistics

ICTs are rapidly growing and expanding throughout the world, pervading all sectors of human activity and contributing to bridge the gap between developed and developing countries with regard to access to technology.



Source: ITU World Telecommunication /ICT Indicators database Note: * Estimate



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Statistics (continued)



Source: ITU World Telecommunication /ICT Indicators database Note: * Estimate

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E-waste is the fastest growing waste stream





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Impact on the Environment and on Human Health

- Each year between 20–50 million tons of e-waste is generated worldwide.
- Many developing countries face the specter of hazardous e-waste mountains with serious consequences for the environment and public health.
- Due to the crude recycling process, many pollutants, such as persistent organic pollutants and heavy metals, are released from e-waste, which can easily accumulate in the human body through the inhalation of contaminated air, causing diseases, such as cardiovascular diseases or even cancer.



When these heavy metals are not properly treated, they can cause irreversible damage to the environment, such as water pollution.



The best way to deal with e-waste is avoid (or at least minimize) it!

From the manufacturing phase through:

- Designing for easy disassembly and recycling
- Avoiding use of heavy pollutants
- Minimization on the use of resources
 - Regulations and standards
- During the life of equipment:
 - Prolonging its lifetime
 - Designing for reuse/multiple use
- At end of life:
 - E-waste conscious management





Avoid/minimize through standardization

- Environmentally conscious companies have e-waste minimization programmes in place but:
 - Such programmes are difficult to set up and manage
 - The extra cost can discourage them
 - As individual companies they can have little impact
- Need to create critical mass and act soon
- Regulation is complex and takes long time



Standardization can fill the gap and lead the market





Capacity Building



Upcoming Workshop and Meetings

- <u>3rd ITU Green Standards Week</u> Madrid, Spain, 16-20 September 2013
- Greening the Future: Bridging the Standardization Gap on Environmental Sustainability Colombo, Sri Lanka, 3-4 October 2013
- <u>ITU/CITEL Workshop on Environmentally sound</u> <u>management of E-waste</u> Mendoza, Argentina, 9 October 2013
- <u>ITU-T Study Group 5 meeting</u>
 Lima, Peru, 2-13 December 2013







3rd ITU Green Standards Week



- To bring together leading specialists in the field, from top policy-makers to engineers, designers, planners, government officials, regulators, standards experts and others.
- To raise awareness of the importance and opportunities of using ICT standards to build a green economy.

Programme:

16/09: ITU, UNEP, UNU, CEDARE Workshop on E-waste

 17/09 (morning): Forum on Greening Mobile Devices: Building Eco-Rating Schemes

- 17/09 (afternoon): Meeting of the Focus Group on Smart Sustainable Cities
- 18/09: High Level Segment on Smart Sustainable Cities
- 19-20/09: 3rd Workshop on Submarine Communications Networks For Climate Monitoring and Disaster Warning
- 20/09: Meeting of the ITU/WMO/UNESCO -IOC Joint Task Force on Submarine Communications Networks For Climate Monitoring and Disaster Warning

SEE YOU IN MADRID, on 16-20 September 2013







Tackling E-Waste... towards the solution!

Need of an integrated waste management approach to generate decent employment, curb health problems, cut greenhouse gas emissions and recover a wide range of valuable metals including silver, gold, palladium, copper and indium – by turning an e-challenge into an e-opportunity.

Key Actions:

- Raise awareness on the dangers of e-waste;
- Encourage the consideration of e-waste management in the design of ICT policy;
- Adopt strategic policies, international standards and regulatory approaches that are sensitive to local context;
- Encourage concerted cooperation in handling e-waste at the national, regional and international level.



Links & Additional Information

- ITU-T/SG5 "Environment & Climate Change" http://www.itu.int/ITU-T/studygroups/com05/index.asp
- ITU-T and Climate Change <u>http://www.itu.int/ITU-T/climatechange</u>
- ITU Symposia & Events on ICTs and Climate Change <u>http://www.itu.int/ITU-T/worksem/climatechange</u>





Thank YOU

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Additional slides





E-WASTE ACADEMY Managers Edition (EWAM)



EWAM 2014: A global forum for stakeholders involved in the practical design and implementation of e-waste management solutions



EWAM Overall Aims

WHO	WHERE	WHY	WHEN
 Policy Makers Governmental Officials Recyclers Refurbishers Collectors Form all over the world	El Salvador hosted by Basel Convention Regional Centre for the Central America Sub-region including Mexico	 Platform for exchange of best practices Discuss & share policy development and approaches Foster interactive atmosphere of knowledge sharing Get feedback & advice from e- waste experts and policymakers 	Timeline: 1 August 2013 Call for Applications Open 15 October 2013 Call for Applications Closed 31 January 2014 Confirmation participants 31 March - 4 April 2014 EWAM in El Salvador



Contact Information

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