



solving the e-waste problem

„Taking the necessary Step forward“
Solving the E-waste Problem (Step Initiative)



UNITED NATIONS
UNIVERSITY

Vision



*To be agents and stewards of change,
uniquely leading global thinking, knowledge,
awareness and innovation in the
management and development of
environmentally,
economically and ethically-sound e-waste
resource recovery, re-use and prevention.*



6 Mission



- Global platform for inclusive, solutions-oriented member dialogue, cooperation and consensus
- Sharing scientific and multisectoral experience information, knowledge and recommendations
- Develop fair, objective policies with external partners for effective and efficient e-waste prevention, management and processes
- Lead the e-waste management discussion worldwide by a scientific basis informing and changing awareness, knowledge, attitudes and behaviour of the international business and consumer public



Objectives



- E-Waste Research & Piloting:
 - Define and prioritise specific areas requiring knowledge-leadership and action
 - Conduct and publish scientific research to inform knowledge and policy-making
 - Steward and promote positive change in the use of natural resources
 - Research design of systems, processes and management practice
 - Support piloting of problem-solving ideas through to implementation
 - Monitor and analyse product-to-recycler supply chain effectiveness



Core Principals



Step's work is founded on scientific assessments of the social, environmental and economic aspects of e-waste.



Step conducts research on the entire life cycle of electronic and electrical equipment.



Step's research and pilot projects aim to contribute to the solution of e-waste problems.



Step condemns all illegal activities related to e-waste, including illegal shipments.



Step seeks to foster safe, eco/energy-efficient and socially responsible re-use and recycling practices around the world.

Objectives



- Strategy & Goals-Setting:
 - Modify strategies and recommendations to suit differing national economic realities
 - Describe, define and document best e-waste practices
 - Leverage member expertise to define optimisation potential and goals by industry sector
 - Grow the funding base for the organisation to support the delivery of its goals and aims



Objectives



- Training & Development:
 - to develop Step as a training partner for multi-sector e-waste players
 - to define the standards and syllabus for training
 - to organise capacity-building and employee training modules
 - to further develop the Step E-waste Academy
- Communication
 - to assess and research the member base about needs, priorities and benefits sought
 - to design and write publications to broaden audiences and to deepen their understanding
 - to raise awareness about issues and opportunities in e-waste prevention, processing and disposal
 - to engage with National Governments on legislation development





Step Membership



Membership



Step is a science-based initiative founded by various UN organizations. We create and foster partnerships between companies, academic institutions, and governmental and non-governmental organizations.

Step membership is open to companies, governmental organizations, academic institutions, NGOs and international organizations that commit to actively and constructively participating in Step's work by signing Step's Memorandum of Understanding. Step members are expected to make monetary and in-kind contributions to support the Initiative and its projects.

Benefits of Step Membership



StEP provides its members with unparalleled **access to e-waste data and information.**



StEP provides its members with a neutral platform to engage in **solutions-based discussions**, work directly and collaboratively on **StEP projects**, and **encourage innovative ideas** to address e-waste problems.



StEP offers its members **support and counsel on e-waste and related problems.**



StEP increases the **visibility of members' efforts** to address e-waste problems.

Step's work



- Step initiates and participates in **research projects** to fill gaps in knowledge about e-waste and related issues.
- Step is engaged in the development of effective and context-appropriate **e-waste policies** around the world.
- Step is building an **inclusive, multi-stakeholder dialogue** oriented towards the implementation of effective e-waste policies.



Step Members



Step Members



The power to do more



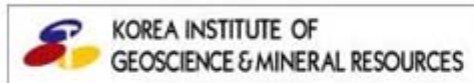
StEP Members



business partner



StEP Members



StEP Members



StEP Members



StEP Steering Committee



**Widmer,
Rolf**
(EMPA)



**Kuehr,
Ruediger**
(UNU)
Executive
Secretary
Ex-Officio



**Linnell,
Jason**
(NCER)



**Li,
Jinhui**
(BCRC China)



**Perry,
Jonathan**
(Dell)



**Döfnäs,
Per**
(Ericsson)
*Chair of the
StEP Steering
Committee*



**McCann,
Duncan**
(WEEE Help)



**Adrian,
Stephanie**
(US-EPA)



Our Areas of Activities



Area Policy

This Area **analyzes e-waste policy approaches** and elaborates policy recommendations for more effective e-waste management.



Area ReDesign

Core Area **ReDesign** is dedicated to reducing negative impacts throughout the life cycle of electrical and electronic equipment through **improved product design**.



Area ReCycle

The Area ReCycle is committed to developing a sustainable global **e-waste recycling system** by enhancing recycling infrastructure and technology around the world.



Area Capacity Building

Task Force Capacity Building works to **increase awareness** of e-waste and related issues in public, scientific and business circles, as well as to **disseminate the results from the work of the other Task Forces** with the aim of building capacity among key stakeholders to address e-waste problems in a variety of contexts.



Focus Projects & Project Co-Leads



Recommendations on collection and recycling schemes in developing and emerging countries



Smit, Eelco

Philips



Magalini, Federico

UNU

Legislative Principles



Perry, Jonathan

Dell

???

17-18 June 2015

Focus Projects & Project Co-Leads



Transboundary movements of WEEE/EEE & Hazardous fractions



Whiting, Patricia

Sims Recycling Solutions



Lepawsky, Josh

Memorial University

Elaborating a Step-toolkit “E-waste Training Materials



Spitzbart, Markus

*D.R.Z - Dismantling- and
Recycling-Centre*



Herbeck, Elisabeth

UNIDO

17-18 June 2015

All Step Projects per Areas



Project Name	Funding Source	handed through	Status
Area: Policy			
White Paper: Transboundary Movements of Discarded Electrical and Electronic Equipment	StEP Seed-Funding	StEP Secretariat/UNU	in discussion
White Paper: E-waste Prevention, Take-back System Design and Policy Approaches	StEP Seed-Funding	StEP Secretariat/UNU	Green Paper complete
Focus Project: Developing legislative principles for e-waste in developing and emerging countries	Unknown	unknown	final draft roadmap
Focus Project: Transboundary Movement of E-waste	Unknown	Josh Lepawsky & Patri	in start
Area: Redesign			
Reuse of EEE consumer products: A potential end-of-life strategy for CRM'S	StEP Seed-Funding	TU Delft - T. Walet	Green Paper due
Redesign of a flat panel television for improved disassembly	StEP Seed-Funding	TU Delft - T. Visser	Green Paper due
Area: Reuse			
Support of a sustainable e-waste management system in Ethiopia	GEF	UNIDO	in finalisation
The Effect of Waste Legislation on Transboundary Movements EEE Destined for Re-use	StEP Seed-Funding	StEP Secretariat/UNU	in final editing
Person in the Port Project	US-EPA/SES	BCCC Africa	in progress
Area: Recycle			
Calculation Tool for E-waste Dismantling Facilities: An Update	StEP Seed-Funding	StEP Secretariat/UNU	Green Paper in develop
Green Paper: Standards for Collection, Storage, Transport and Treatment of E-waste	StEP Seed-Funding	StEP Secretariat/UNU	completed
CRT Recycling in Developing Countries	HP	EMPA	completed
PhD Thesis on Material Flows	Unknown	Esther Müller	in progress
Focus Project: Recommendations on collection and recycling schemes in developing and em	Unknown	Eelco Smit	final draft roadmap
Area: Capacity Building			
StEP ADDRESS: Quantification Activities	UNU	UNU	in progress
Focus Project: Standard Curriculum EWAS & EWAM	unknown	Colin Fitzpatrick a.i.	roadmap developmen
Focus Project: Elaborating a Step-toolkit "E-waste Training Materials"	unknown	Markus Spitzbart & Eli	final draft roadmap
Focus Theme: Social Dimensions	unknown	???	first draft
E-Waste World-Map	various sponsors	StEP Secretariat/UNU	in progress
Support in the development of events such as e.g. ITU-T, EGG, E-waste Forum etc.	none		

White Paper Series (selection)

“Policy”

Transboundary Movements of E-waste

“Policy”

E-waste Prevention, Take-back System Design
and Policy Approaches

“Policy”

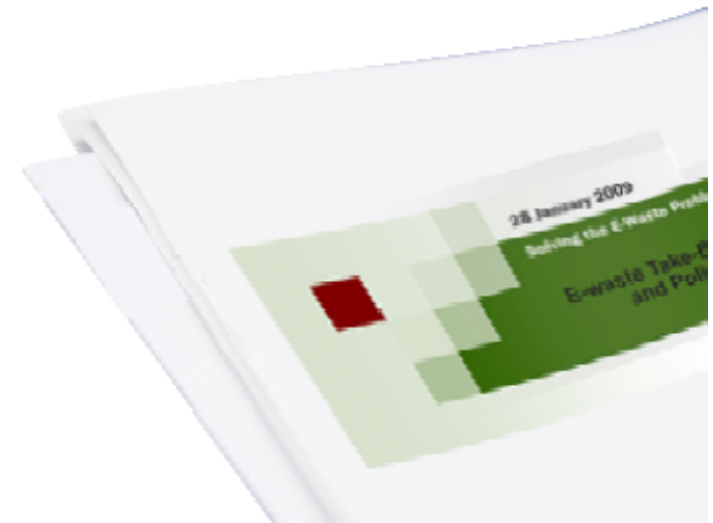
E-waste Definitions

“ReUse”

Effect of Waste Legislations on Transboundary -
Movements of EEE Destined for Reuse

TF 4 “ReCycle”

**Standards for Collection, Storage, Transport
and Treatment of E-waste**



Green Paper Series (selection)

“Policy & Recycle”

**E-waste Prevention, Take-back System Design
and Policy Approaches**

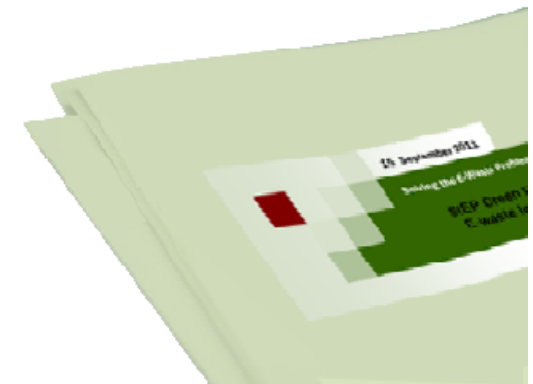
“Policy”

Differentiating EEE products and wastes

TF 2 “ReDesign”

Design for Recycling: Feasibility Assessment and
Recommendations

TF2/3 “ReDesign & Reuse”





Thank you for your attention!

StEP Secretariat

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