E-WASTE: A PROBLEM AND OPPORTUNITY

HOW ARE WEEE DOING IN SOUTH AFRICA?
Does modern technology owe ecology an apology?
Ecological devastation
Can E-waste be a game changer for South Africa?
Health risks to future generations
Material composition of personal computers

- Silica/glass: 26%
- Plastics: 23%
- Ferrous metal: 20%
- Aluminum: 14%
- Other (includes lead, copper, zinc, mercury and cadmium): 17%

Source: Environment Canada.
E-Waste
The Escalation of a Global Crisis.
THE WORLDS E-WASTE

In conjunction with Solving the E-Waste Problem Initiative (StEP), the United Nations and various organizations are tracking the generation, collection and export of used electronics.

E-WASTE GENERATED BY COUNTRY (2012 total, in millions of tons)

- USA: 10.317
- EU: 10.933
- Russia: 1.556
- China: 7.995
- India: 3.033
- Japan: 3.022
- Mexico: 1.138
- Brazil: 1.530

Source: Step-initiative.org

IN THE U.S.

Approximately 258.2 million units of used electronics (computers, monitors, TVs and mobile phones) were generated in 2010...

... of which 171.4 million were collected.

14.4 million used electronic products were exported.

USED ELECTRONICS GENERATED AND COLLECTED IN THE U.S. (2010, millions of units)

- **TELEVISIONS**
  - Used products generated: 33,141
  - Used products collected: 16,879
  - Percentage: 51%

- **COMPUTERS**
  - Used products generated: 29,902
  - Used products collected: 22,171
  - Percentage: 74%

- **MONITORS**
  - Used products generated: 17,671
  - Used products collected: 12,768
  - Percentage: 72%

- **MOBILE PHONES**
  - Used products generated: 176,057
  - Used products collected: 119,484
  - Percentage: 68%

TOP 10 EXPORT DESTINATIONS FOR USED ELECTRONICS (2010)

**TELEVISIONS**

1. Mexico
2. Venezuela
3. Paraguay
4. China
5. Canada
6. Hong Kong
7. Costa Rica
8. Brazil
9. Chile
10. Argentina

**COMPUTERS**

1. Hong Kong
2. United Arab Emirates
3. China
4. Canada
5. Argentina
6. Chile
7. Mexico
8. Italy
9. Bolivvia
10. United Kingdom

**MONITORS**

1. Mexico
2. China
3. Canada
4. Venezuela
5. Colombia
6. Egypt
7. Chile
8. Ecuador
9. Bolivia
10. Hong Kong

**MOBILE PHONES**

1. Hong Kong
2. Paraguay
3. Guatemala
4. Panama
5. Peru
6. Colombia
7. Mexico
8. Venezuela
9. Chile
10. Bolivia

Sources: United Nations, Massachusetts Institute of Technology (MIT) Materials Systems Laboratory and the U.S. National Center for Electronics Recycling (NCER)

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Known and Suspected Routes of e-waste Dumping

There is currently no system for tracking legal or illegal (under international law) shipments of electronic waste, and therefore, there is no quantitative data on volumes or even all of the true destinations. Some electronic waste is shipped as “working equipment” only to end-up as waste upon arrival. This map indicates information collected through investigations by organizations such as the Basel Action Network, Silicon Valley Toxics Coalition, Toxics Link India, SCOPE (in Pakistan), Greenpeace and others.
Country Assessment

The Analysis

BASEL CONVENTION
Where are WEee in Africa?

FINDINGS FROM THE BASEL CONVENTION
E-WASTE AFRICA PROGRAMME

ADVANCE VERSION
WHAT ARE WE DOING WITH THESE STOCKPILES?
SURVEY RESULTS
CASE STUDIES
FINDING SOLUTIONS FOR E-WASTE
E-WASTE RECYCLING DAY

Friday, April 19, 2013
8:00 am - 12:00 pm

University Services Building
1795 S. Campus Drive
(adjacent to South Campus Trax stop)

Open to Salt Lake City residents & The University of Utah.
No business e-waste, please.

All items will be responsibly recycled.
SOUTH AFRICA MUST

Sustain the Future.
AND

HEAL THE WORLD