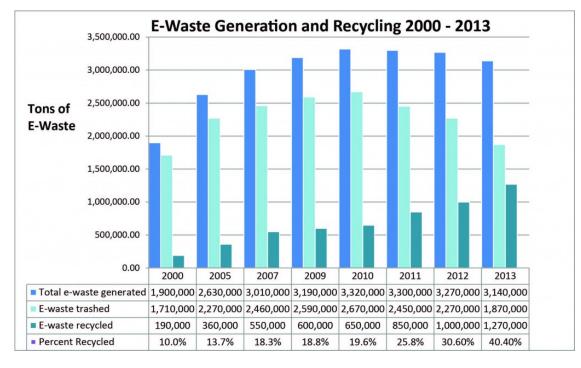


What is considered e-Waste?

- The term "e-waste" is loosely applied to consumer and business electronic equipment that is near or at the end of its useful life. The term is malleable, does it include microwaves and other small appliances? Yes and no.
- One of the fastest growing waste streams worldwide:
 - Americans on average, own 24 electronic products per household.
 - Electronics sales in the US are greater than \$206
 Billion
 - EPA suggested 2.4 million tons of electronics were disposed of in 2012, up 120% from 1999.
 - My business alone, last year, recycled 800,000lbs of electronics

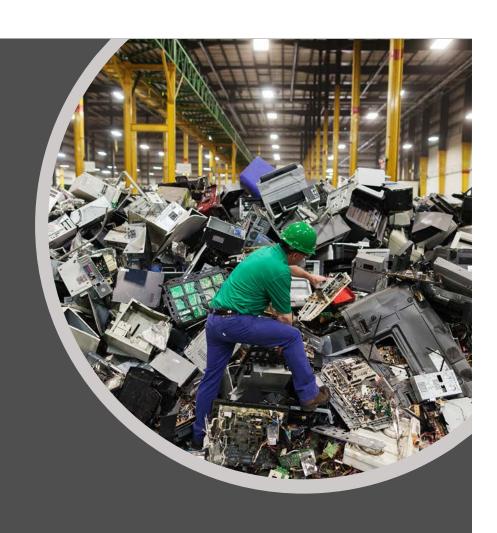






How is e-Waste Recycled?

- Refurbish/repurpose
- Recycle: break down equipment into categories
 - All circuit boards
 - Wire
 - Networking/telecom
 - Server
 - Routers/modems
 - Miscellaneous electronics
 - RAM/Memory
 - Batteries: different classifications







Benefits of e-Waste Recycling

- Natural resources are conserved
- Air and water pollution caused by hazardous disposal is avoided
- Creates jobs
- Reduces greenhouse gas emissions caused by manufacturing new products
 - the production of one desktop computer takes at least 530 pounds of fossil fuels, 48 pounds of chemicals, and 1.5 tons of water

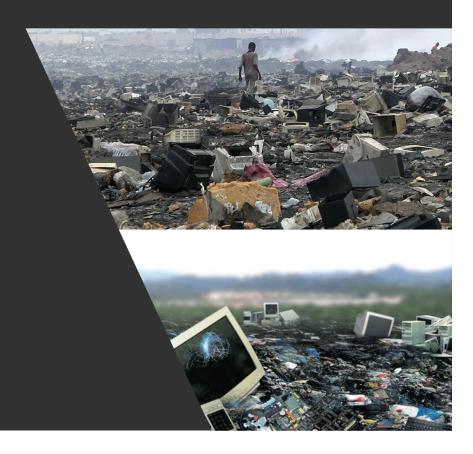


Industry Standards

- Relatively new market
- Mostly self governancevoluntary accreditations exist, but costly
- Selling to underdeveloped countries- \$ over morality
- State legislation and accountability
 - California has the most stringent standards: no TVs or CRTs are allowed

Challenges in the e-Waste market.

- China: was the leading importer of e-Waste, that changed 4 years ago.
- Fluctuating markets: e-Waste is a commodity like everything else- the markets fluctuate, which hinders your bottom line.
- Lack of public and private education.
- Manufactures want you to buy more!!
- Harmful chemicals
- Lack of Industry Standards
- Non-recyclable material- plastics!!



Solutions to Challenges

- Cannot rely upon other countries to solve our waste problem
- Education
- Self governance within the industry
- Placing the onus on manufacturers: CRTs, TVs, etc.
- Local governments and municipalities to partner with e-Waste Recyclers



Personal data

- Servers, laptops, some copiers, computers, DVR's, etc contain personal data
 - Potential for identity theft is huge
 - Degaussing: HIPPA
 - Hard Drive Shredding
 - Personal, business, governments, hospitals, school districts
 - Data retention devices constantly evolving- must know what you're looking for

