



2014 Earth Day Summit

Monday April 7, 2014

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Presentation by
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Log Tech, LLC – John White, CEO President

Recyclers Coordination Meeting

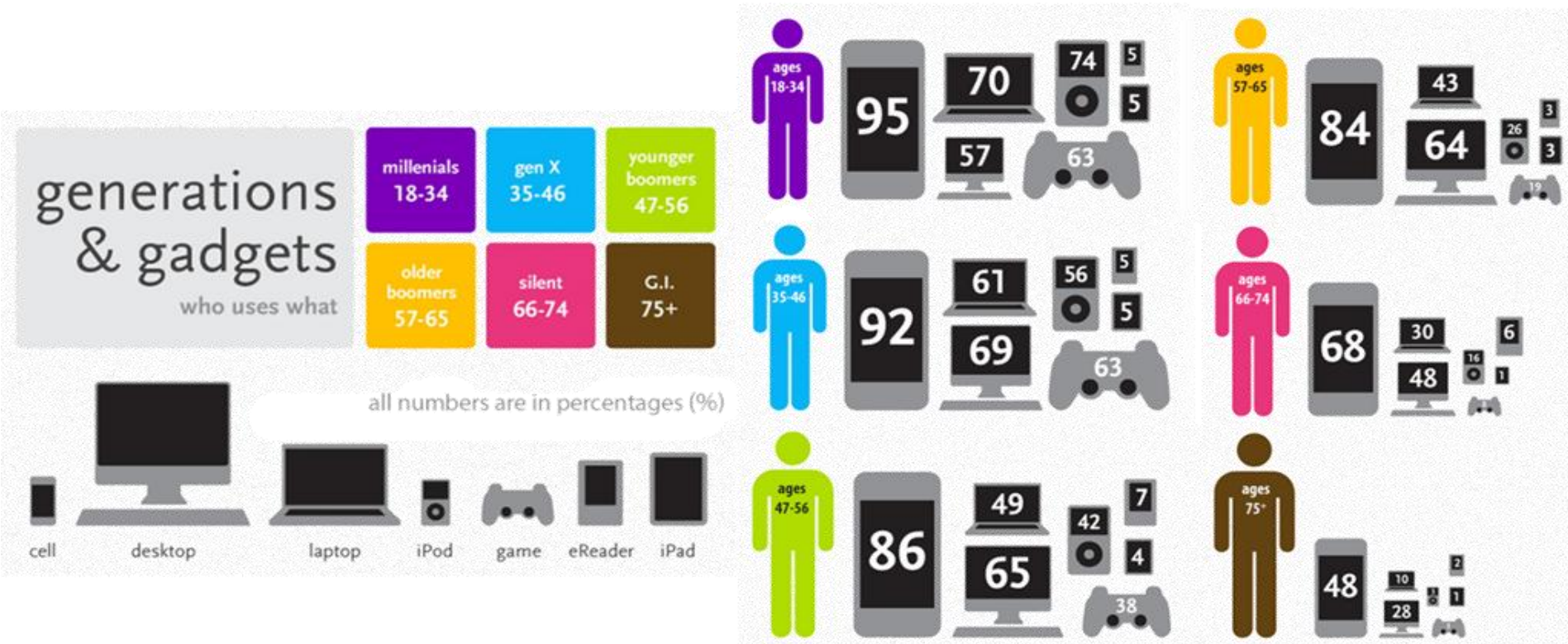
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Agenda

- Did You Know?
 - Interesting facts about technology
- Consumer Trends
- CRT/TV Status

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Who Uses What?



Consumers are Upgrading Frequently

- Consumers on average spend \$2407 annually
- TV's are being upgraded every 5-7 years
- PCs are upgraded every 3-4 years
- Cell phones are upgraded every 1-2 years



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Did You Know?

- 1.5 Million Americans Watch Videos Online Each Day
- 41% Of 18-29 Year Old Internet Users Post Or Share Videos Online



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Mobile Services

- 4 Billion People Or 87% Of The Worlds Population Hold Subscriptions For Mobile Services
- Subscriptions For 3g And 4g Advanced Wireless Services Are Growing At A Rate 37% Annually



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The High Speed Sprint

- So what does this mean for industry providers trying to keep their clients happy in industries like Defense, Medical, Telecom, And Data Centers?



Defense



Medical



Telecom



Data Centers

- They're Forced To Keep Up With Competitors By Constantly Upgrading Technologies And Their Networks.

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Impact on Industry

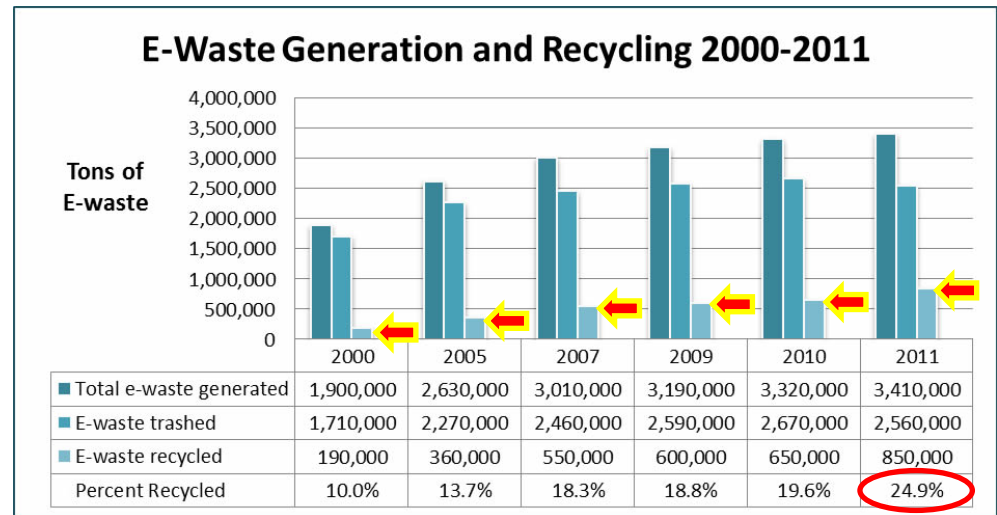
- Over 90 % of American Companies Say They Have Been Hacked
- Industry providers are forced to keep up with competitors by constantly upgrading their technologies and keeping all data safe from criminal hackers!



Results

What are the results of consumers increased spending and industries high speed sprints to compete?

- As A Result, Obsolescence Of Electronics Devices Is Growing At An Extremely Rapid Pace.
- According To The EPA, There Is 2.5 Million Tons Of End Of Life Electronics, Only 30% Of Which Is Being Disposed Of Properly.



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E-Scrap

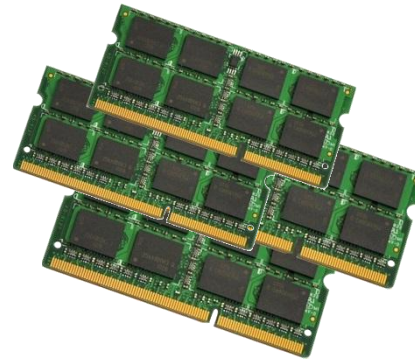
- **E-Scrap Generally Offers Material Recovery Value Up To 80%**



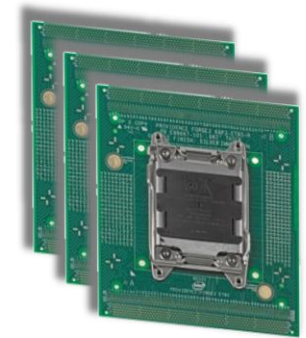
Computers



Circuit
Boards



Memory



Processor Chips

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Did You Know?

The Average Home has **Twenty-Four (24)** Used, Unwanted Electronics



- **One Metric Ton** of Electronic Scrap from **PC's Contains More Gold** than that Recovered from 17 Tons of Gold Ore

130 Million Cell Phones are Retired each year



- **A Ton of Used Cell Phones** (6000 phones) **Yields \$15,000 in precious metals**
- 3.5 Kilograms of Silver
- 340 Grams of Gold
- 140 Grams of Palladium
- 130 Kilograms of Copper

Recycling Metals from E-Waste **Uses a Fraction of the Energy** Needed to Mine New Metals



- Recovering **10 Kilograms of Aluminum** via Recycling Uses No More than **10% of the Energy Required for Primary Production**, and **prevents the Sulphur Dioxide Omissions**

Impacts on the Environment

To manufacture one computer it takes:

- 530 lbs of fossil fuels
- 48 lbs of chemicals
- 1.5 tons of water



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E-Waste in Developing Countries



Hazards

Electronics Contain **Hazardous Materials** (Such As Lead, PCBs) that cause health and environmental damage when trashed instead of recycled.

Percentages

Only 25-30% Of All Used Electronics Are Being Recycled
The rest ends up in landfills or is illegally shipped to developing countries!

Where It Goes

Millions of tons of used electronics end up in Asia and Africa, where recycling is a big yet dangerous business. it's illegal, but profitable.

Who Gets Hurt

In the countries where the waste is received, it's young children who are often involved in breaking down the equipment that contains harmful chemicals.

Health Risks



- Environmental And Health Risks Posed By Improper E-waste Recycling:

Children Are Facing Serious Health Consequences, Becoming Victims Of Diseases Such As Asthma.

Recycling Of Electronic Waste Is Highly Expensive Because Components Are Either Dangerous For The Environment Or Flat Out Toxic.

E-waste Contains Lead, Mercury, Cadmium And Other Heavy Metals That Can Cause Serious Neurological Damage.

3 R's

- **Reuse** technology as much as possible – Refurbish/Remarket, Donations
- **Reduce** the impact on the environment (mining) – Parts Harvest
- **Recycle** – Only when necessary





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Market Trends

Worldwide Device Shipments by Segment (Thousands of Units)

Device Type	2012	2013	2014
PC (Desktop & Notebook)	341,273	305,178	289,239
Ultramobile	9,787	20,301	39,824
Tablet	120,203	201,825	276,178
Mobile Phone	1,746,177	1,821,193	1,901,188
Total	2,217,440	2,348,497	2,506,429

Tablet Processing

- Tablet Refurbishment Process
- USB Connection
- Embedded Memory
 - No HDD Removal
 - Process in Line
- Solid State Drive (SSD)
 - Factory Reset
 - Secure Erase or Firmware Erase
 - 3x Multiple Pass Wipes



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Hybrid Tablets

Hybrid Tablets & Notebooks



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CRTs/TVs Status

CRT & TV Recycling

- The number of CRTs/TVs have not decreased
- The Older the Program is the Less Funding is Available Over Time
 - More & more Collectors and Recyclers have gotten involved over time
- More US Smelters are Closing
- Transportation Costs are Rising