

# PROPERLY MANAGING E-WASTE: CIRCULAR SOLUTIONS

BY  
ANN HUGHES

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Trends and  
Best  
Practices

Improper Management  
at End of Life

Risk  
Mitigation

Vendor  
Selection

# EVOLUTION OF AN INDUSTRY



Sources: BAN & Silicon Valley Toxics Coalition 2002

- R2v3 (Responsible Recycling) or e-Stewards Certification
- Demonstrates commitment to minimize pollution, waste and data security risk
- All equipment received is intended for recycling or re-use in agreement with RCRA
- Zero landfill of equipment
- No export of 'junk'
- Processing based on reuse, refurbishment, recovery and recycling

# ENVIRONMENTAL CONCERNS

Why recycle?

- Environmental Compliance
- Electronics Contain Heavy Metals-Lead, Mercury and Cadmium
- Laws and Regulations
  - IL Landfill Ban 2012
  - CERA 2019
- Prevent Illegal Export
- Batteries and Fire



# EQUIPMENT TYPES



# ITAM or ITAD

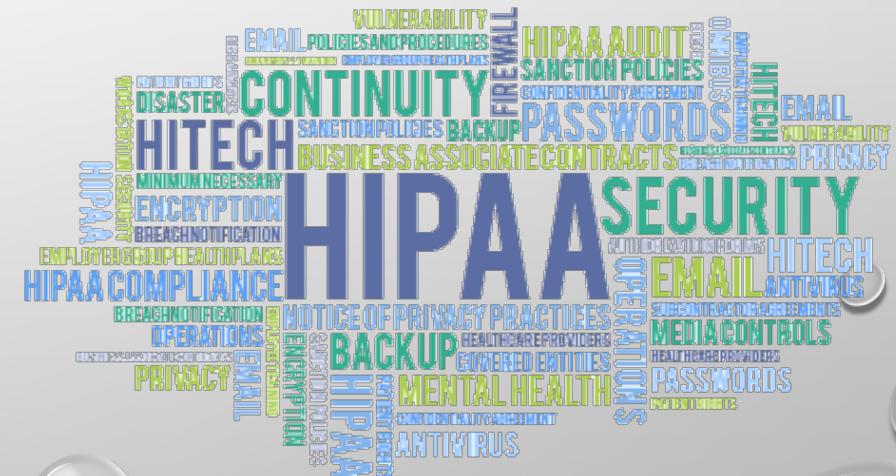
- Lifecycle management/retirement of assets
  - Logistics/reverse logistics
    - Inventory reporting
    - Data destruction
    - Remarketing
    - Recycling



# DATA SECURITY



# LAWS AND REGULATIONS



# RISK CONSIDERATIONS



- Encryption
- Data Erasure
- Onsite Hard Drive and Media Destruction
- Chain of Custody from You to Vendor
- Data Destruction Verification
- Controlled Access

## Data Breach and Fines

- Morgan Stanley-\$150 million plus
- T-Mobile \$350 million
- Average data breach cost \$10.22 million

## Clean Up Costs

- TJ Maxx-\$2.05 million improper disposal
- Closed Loop CRT processor-over \$30 million paid by govt, OEMs, recyclers, etc.

# REDUCE RISK



# VENDOR PROBLEMS



## BEST PRACTICES

- Transparency
- Certificates Tied to Equipment
- Hierarchy of Reuse, Refurbish, Recovery, Recycle
- Data Security Policies & Procedures
- Ownership, Time in Business
- Facility-Organized, Clean, Permits
- Employee Training



## BENEFITS OF A ROBUST PROGRAM

- R2 and e-Stewards Require Tracking of Downstream Vendors/Processors
- Reducing Carbon Footprint, Using Less Resources, Less Mining, Saving on Energy
- Reuse Internally, Charitable Donations
- Avoid Landfill



Thank you!

Ann Hughes/Director of Sales and Marketing

O:800-972-1003 M:224-388-0337

[ann.hughes@mrkgroup.com](mailto:ann.hughes@mrkgroup.com)

[www.mrkgroup ltd.com](http://www.mrkgroup ltd.com)

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