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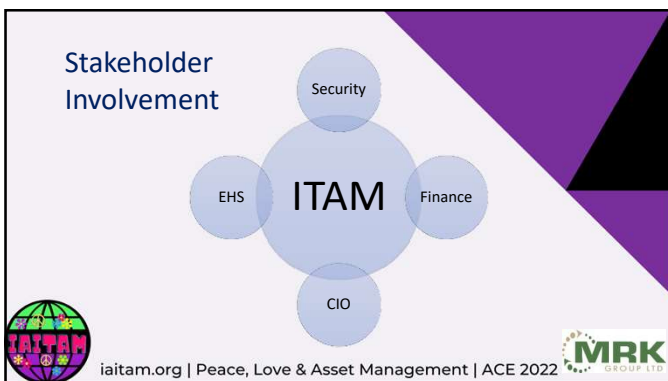
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### Evolving Industry



- ITAM started in the mid 1990s
  - Scrap metal processors
  - Informal industry
- Original focus on environmental impact


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### Environmental Issues Past & Present



Source: BAN & Silicon Valley Toxics Coalition 2002



Source: Silicon Republic


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### Improper Management at End of Life

- Heavy metals-cadmium, lead, mercury
  - Environmental compliance
  - Laws and regulations
  - Prevent illegal export
    - Facility fires


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### Staggering Clean Up Costs

- ITAD, recyclers, OEMs, non-profits and governments-over \$9.7 million in clean up costs to date of shuttered CRT processor
- 2020 WI recycler guilty of RCRA violations re. storage and transport of CRT glass
- Big Lots-\$3.5 million for improper disposal Walgreens, BB&B, Ross- \$8 million +




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### LET'S TALK!

### GREAT PR

- Global Reporting Initiatives
- Sustainability Report
- Reuse internally
- Charitable donations
- Landfill avoidance
- Use less resources




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### Present Day

- Data security concerns primary
  - ITAM or ITAD
- Adds \$20.6 billion to US economy
- Businesses/commercial sources supply 75% of material processed
- US recyclers process more than 5 million tons annually

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### Lifecycle Management

- Audit/inventory reporting
- Data destruction
- Remarketing
- Refurbishment
- Recycling
- Logistics
- End of lease services
- Redeployment

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### Data Security

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### Cost Categories

- **Detection and escalation**  
Forensic activities, Crises team management
- **Notification**  
Email, general notice and communications
- **Post data response**  
Help Desk, Inbound communications, Credit reporting
- **Lost business**  
Business disruption, lost revenues, customer turnover, reputation

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### Data Breach Costs

- Average record globally \$161
  - Customer PII \$180
- Average per incident globally \$4.24 million
- Average per incident US \$9.05 million

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### Fines per Data Breach


2019: Equifax 147 million records, \$575 million +

2020: Banner Health, \$8.9 million for 2016 breach

2022: Morgan Stanley agrees to pay additional \$60 million for class action lawsuit

2020: fined \$60 million for failure to properly decommission hardware from data centers in 2016

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### Balancing Risk vs Costs



- Encryption
- Data erasure-NIST 800-88 and DOD compliant
- Remote wipe
- Chain of custody
- Vendor verification
- Onsite hard drive destruction

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### Financial Stakeholders

- Maintenance agreements- hardware and software
- Capital assets, depreciation expense, property listing
- Upon depreciation, \$0 value and remains on property listing until disposed
- Corporate officer certifies validity of financial statements
  - Fines, penalties and imprisonment for executives

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### Certifications



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**Thank you!**

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