

Uncommon places your company data may be stored (and waiting for a breach)

Brendan O'Byrne, Guardian Data Destruction



Thirty years' experience in IT operations and sales management in the electronics/ITAD industry.

Concentrate on most complex and enterprise projects comprised of multiple services including data destruction, packing, logistics, data decommissioning, lift & shift, lease return, software development and high value assets.

Customer-centric strategic and tactical thinker.

Detail-oriented project manager.



#### Brendan O'Byrne

Enterprise Services Manager





Data is the new commodity. (And, the new Achilles heel.)

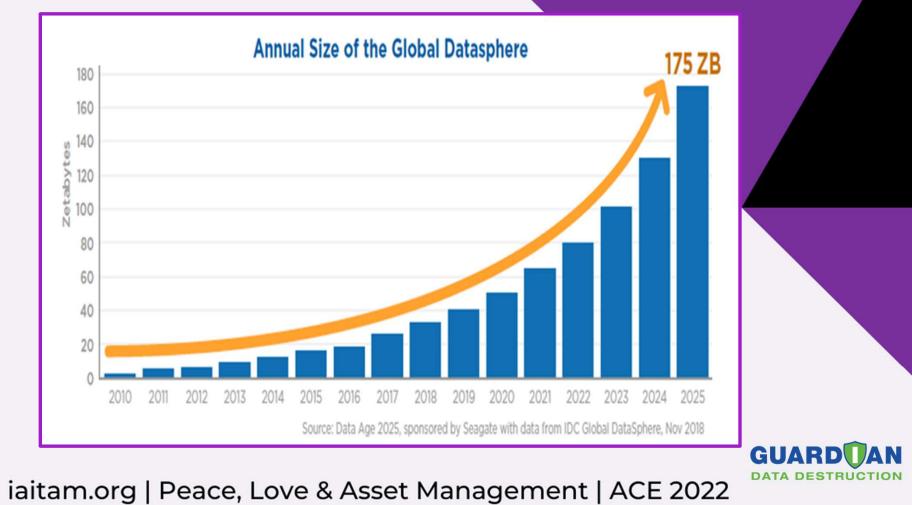
Data creation and storage are growing at an *exponential rate*.





#### Data predictions

1 zettabyte = 1 trillion gigabytes





#### Data problems

#### "40% of tested IT equipment still contained personally identifiable information (PII) of the original owners of the hardware."

NAID - National Association for Information Destruction

### "30% of all data breaches come from not properly disposing of assets."

Gartner Research

There is no singular US law that covers the privacy of all types of data. Instead, there are a mix of laws: HIPAA, FCRA, FERPA, GLBA, ECPA, COPPA, and VPPA.

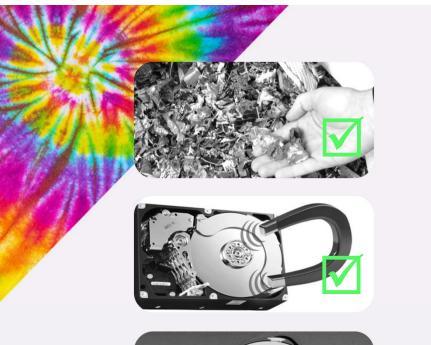




#### Where is my data? Where is it hiding?







#### Hard drives destroyed. My job is done!







#### The Goal (always)

Ensure that you have a comprehensive data destruction program.

Four out of five corporate IT asset disposal projects had at least one missing asset. More disturbing is the fact that 15% of these 'untracked' assets are devices potentially bearing data such as laptops, computers and servers.

Harvard Business Review





#### Industries that (really) care









**AERO** 

RETAIL

HEALTHCARE

MANUFACTURING

FINANCE/BANKING

## All of them.





#### Data breaches in the news



Source: http://www.Sontiq/identifyforce.com

#### Six groups of hidden data sources The Obvious





#### **The Obvious**

- Computers laptops, desktops, tablets, Chromebooks, MacBooks, all-in-ones
- Network equipment routers, switches, firewalls, NAS, transmitters/transceivers with chips
- Data Servers/Storage arrays of hard drives and tape backup systems





Six groups of hidden data sources The Obvious The Forgotten





#### **The Forgotten**

- Add-on hard drives not original to the PO or spec
- Backups of the backups your cloud partners/storage facilities/Internet provider
- Old/unused accounts email, YouTube, Dropbox, etc.
- Computer trashcans emptied even your cloud? (most are auto set up to hold for 30 days)





Six groups of hidden data sources The Obvious The Forgotten The Hiding in Plain Sight





#### **The Hiding in Plain Sight**

- Credit cards, security badges & IDs (magnetic strips)
- Office equipment copiers, printers, scanners (HDD/SSD)
- Cameras, video cameras (MicroSD, tapes)
- External storage thumb/USB drives/sticks, tape drives and libraries, JAZ/ZIP/hard drives, CDs and DVDs, videos





Six groups of hidden data sources The Obvious The Forgotten The Hiding in Plain Sight The Surprises





#### **The Surprises**

- Kiosks games, video rentals, snack machines that take credit cards, medical check-ins, event/hospitality check-ins, airline check-ins (mostly HDD)
- POS and Scanners retail self-checkout, restaurant mobile checkout scanners, delivery and shipment tablets, inventory scanners (HDD/SSD mix)





Six groups of hidden data sources The Obvious The Forgotten The Hiding in Plain Sight The Surprises The Innocuous





#### **The Innocuous**

- X-rays
- Industry equipment and devices
- Vehicles rentals, lease returns, personal, commercial
- Anything IoT
- Tracked online behavior shopping, browsing (mobile/home/work)



Six groups of hidden data sources The Obvious The Forgotten The Hiding in Plain Sight The Surprises The Innocuous The Super Sneaky





#### **The Super Sneaky**

# Start with the memory technology THEN find the devices/assets

### FLIP YOUR THINKING



#### A Super Sneaky example: SSDs

- They're <u>everywhere</u> because they're small
- They can hold a lot of confidential documents in almost no space
- "What devices/equipment do I have that have SSD drives?"

Copiers, printers, scanners, any media, motherboards (standard), etc.

Memory cards – chips M.2 SSD – servers, desktop

MicroSD cards - cameras, printers, drones



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#### A Super Sneaky example: non-standard & not labeled

#### Server memory configurations & flavors vary:

- Standard, no-surprise hard drives
- Hard drives in multiple locations front/rear/legacy
- External hard drives + internal hard drives + one or more SSDs on the motherboard
- OS system on a MicroSD accessed through the controller
- More!





#### A Super Sneaky example: IT Provisioning

Understand how to **un**enroll your IT department's auto-device enrollment, provisioning and deployment process for enterprise laptop security and management.

Unawareness of MDM setup and removal affects redeployment, resale, donation and data destruction and is an opportunity for a data breach.

How? Devices will auto-reprovision with initial setup data, access, software and your company identification even after the HD/SSD is erased and shredded.



The (Uncommon Places Your Data May be Stored) Takeaway +Action Items





#### **The Takeaway**

- Data storage is inside, outside, easy, inaccessible, buried, complex
- Look at <u>every</u> piece of IT and communication equipment and think, "What are you holding/hiding from me?"
- Understand that your IT asset data destruction "list" is temporary and will only grow





#### **Action Items**

- Review your IT asset management plan annually to ensure that IT assets, devices and technologies are recognized, tracked, inventoried and sanitized
- Work with your legal experts, industry groups and vendors to know the laws, regulations and requirements that apply so you can develop processes to ensure privacy and data security
- Understand the value of your data to someone else to evaluate the risk of a data breach and estimate possible brand and monetary damage
- Work with your VAR, ITAD, reseller or MSP to ensure that you have a third party that can advise you on how to destroy data – where ever it is





## **LET'S TALK!**



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#### Thank you. Questions?

