

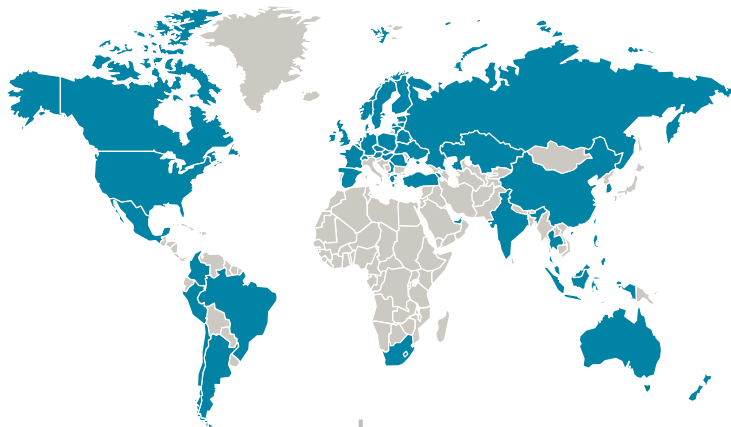
# Impact of Digital Transformation on the Records Storage Industry

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MD, Thought Leadership



# Setting the stage

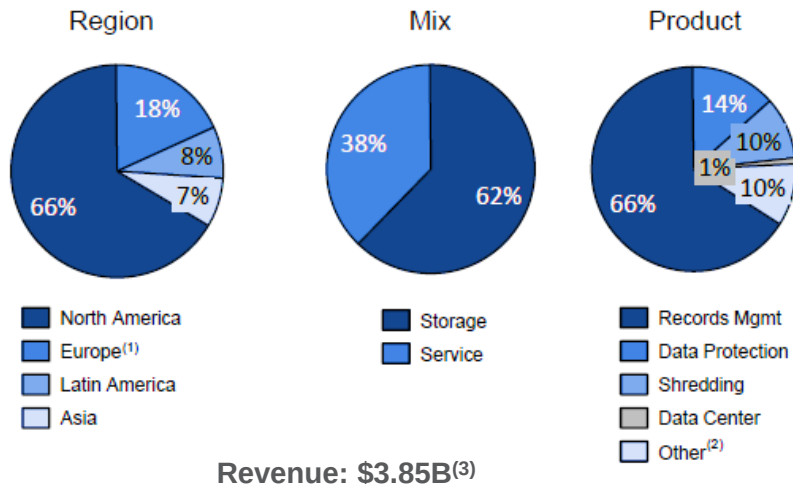
## Global Footprint



**53 COUNTRIES**

**6 CONTINENTS**

## Business Mix



**225,000+**  
Customers

**95%**  
Fortune 1000  
companies

**87MM**  
SF of real estate

**1,400+**  
Facilities

**25,000+**  
Employees

Note: Statistics based on 2017 Full Year Financial Results:

- (1) Includes South Africa and United Arab Emirates
- (2) Includes Fulfillment Services, Information Governance and Digital Solutions, Technology Escrow Services, Entertainment Services, Fine Art Storage, Consumer Storage and other ancillary services
- (3) Based on 2017 Full Year Financial Results.

# Undisputed evolution...



# RIM/IG disruptors



# NARA's vision



*We will lead the archival and information professions to ensure archives thrive in a digital world.*

# Strategic goals for DX

Memorandum M-17-22 Comprehensive Plan for Reforming the Federal Government and Reducing the Federal Civilian Workforce

- Goal 2.4 - By FY 2020, NARA will have policies and processes in place to support Federal agencies' transition to fully-electronic recordkeeping.
- Goal 3.1 - By FY 2019, NARA will conduct inspections of records management practices at 10% of Federal agencies per year.
- Goal 3.2 - By December 31, 2022, NARA will, to the fullest extent possible, accept records only in electronic format and with appropriate metadata.

<https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/memoranda/2017/M-17-22.pdf>

# Records storage impact

- Increase in born digital records
- Imaging temporary and permanent records for ingestion at NARA
- Policy for destruction of paper after scanning
- Metadata standard and method for consistent application
  - Auto-classification?
  - Role-based?

Federal Electronic Records Management Initiative (FERMI)  
working with GSA to create requirements for vendors

# Less paper records created...



# Results in less paper stored.





# So what does the future hold?

Protect and preserve what matters most– enabling you to have confidence that your information is securely stored and recoverable

Make peace  
with paper



# On-site vs off-site storage

- Formal programs for storage
  - Vendor
  - Self-managed
- Informal records on-site
  - Managed
  - Unmanaged

Unvended: records stored in-house



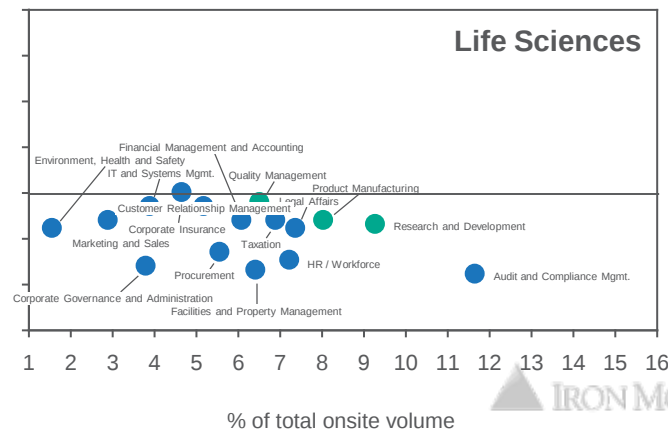
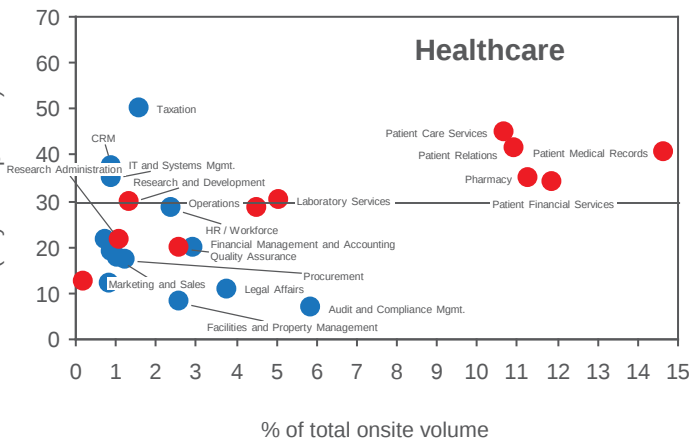
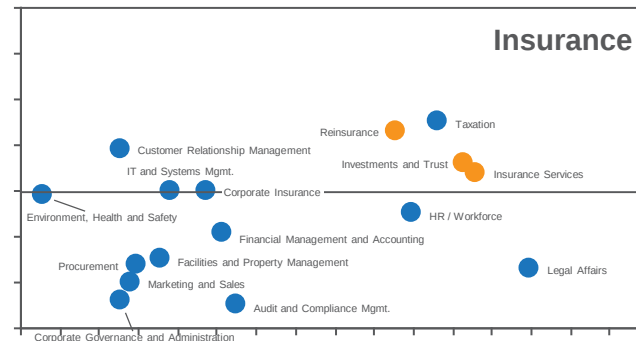
# Unvended observations

## Multiple data sources point to a substantial addressable market in unvended volume

- More mature RIM/IG organizations are more willing to store records offsite (*and* manage documents digitally)
- Real Estate moves/consolidation and M&A create opportunities to move previously unvended records offsite
- 40% of unvended volume stored in on-site file rooms could be moved off-site for maximum use of real estate

# Digital transformation findings

Has this record type gone digital only? (% yes responses)



# The information explosion

**25%**

Average annual rate  
of growth for active  
files<sup>1</sup>

And with it comes risk:

**67%**

Percentage of information  
loss directly related  
to user error<sup>1</sup>

**12secs**

Frequency in which  
organizations  
lose a record<sup>1</sup>

**4weeks**

Amount of time spent  
searching for, or waiting  
on, misfiled, mislabeled,  
untracked, or lost  
information per year<sup>1</sup>

# Paper lives on...

Average life of a box in offsite storage = 15 years

- ✓ Retention Schedule rule dictates time
- ✓ Litigation holds routinely reviewed
- ✓ Mergers and acquisitions – temporary storage
- ✓ Secure from hacking/vital records protection
- ✗ Incomplete metadata – no retention rule attached
- ✗ Orphans
- ✗ Co-mingled records
- ✗ Permanent holds
- ✗ Mergers and acquisitions – permanent storage



# But with reduced activity

- Mobile work force
- Consolidated office space
- Born digital records
- Fewer transactions
  - Image on demand
  - Aging records
- Millennials' behavior



# Opportunities remain

Improve integrity of box management

- Content classification
  - Assign retention code/rule to boxes
- Identify records with PII
- Apply RFID technology to facilitate audits
- File level management
  - Remove files from boxes for on-shelf ease of access
- Determine archival records
- Consider change from decentralized to centralized management

# Barriers to disposition

## ☐ Budget considerations

- Easy to default to year over year amount
- No budget to remove or destroy cartons
- Major projects (e.g., indexing, auditing) required to improve RIM program maturity and enable boxes to move to offsite storage

## ☐ ROI – finding the right balance of action vs storage

- Destruction
- Lifting
- Imaging

## ☐ Prevailing “keep everything culture”

## ☐ No authority/accountability for disposition

# Going forward





## Continued opportunities for paper storage growth

- Emerging markets (China, India, Latin America)
- Continued real estate consolidation
- M&A activity
- Paper free/less offices

# What's in the paper?

- Valuable information
  - Data analytics
  - Business intelligence
  - AI
  - Monetization
- Responsive records for Discovery
- PII that needs protection and access per regulation
- Historical/archival records of an organization



# Industry is evolving with you!



# Key lessons learned in 60+ years

Applicable to paper and electronic records

- Fundamental Program requirements:
  - Records Retention Schedule
  - Policy and Procedures
  - Training and awareness
  - Publication of Program materials, FAQs, contacts
- Metadata management
- Metrics, KPIs and KRIs to measure and monitor compliance, etc.
- Technology will continue to solve and evolve

# What's next?



**CHANGE  
THE DATA  
QUO.**

**IF YOU'RE STILL LOOKING  
FOR THE SILVER LINING,  
TIME FOR A NEW CLOUD.**

 **IRON CLOUD**

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 **IRON MOUNTAIN®**

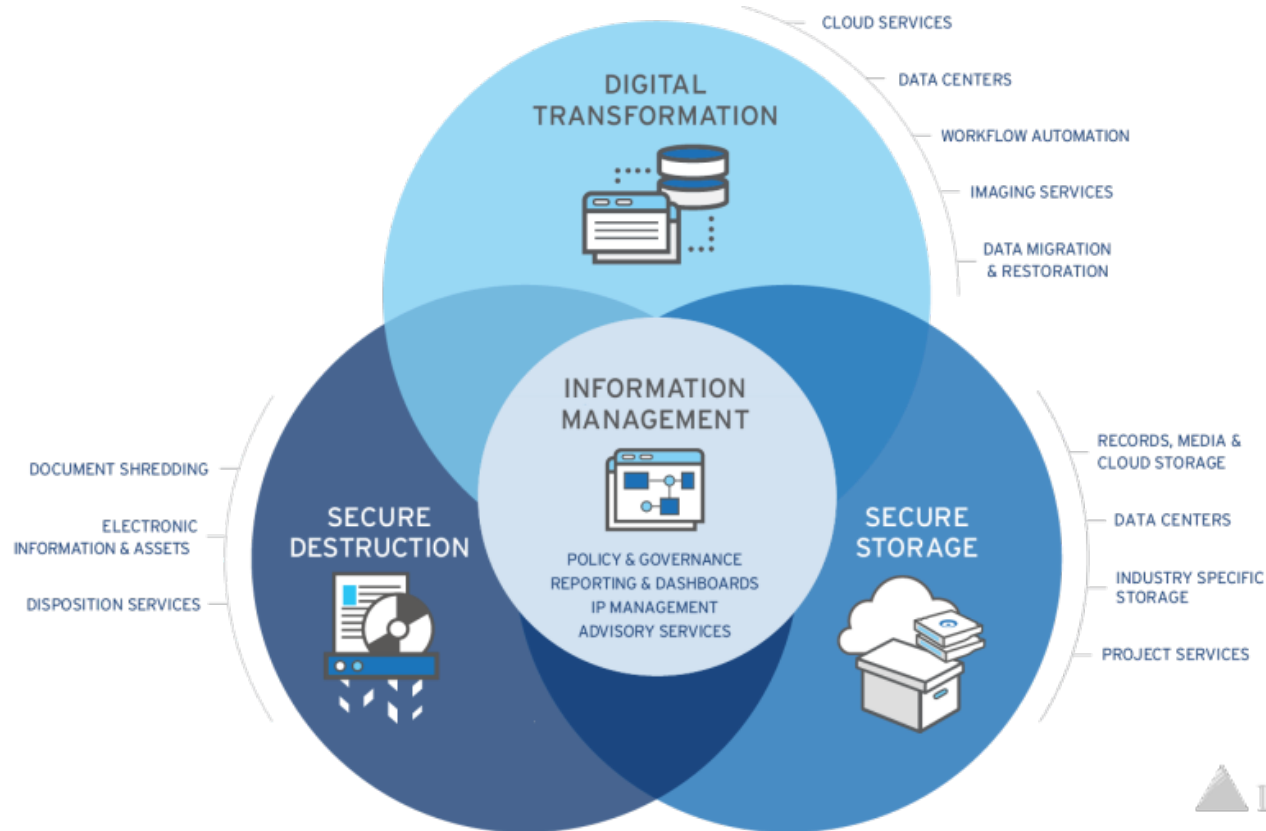
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Providing solutions to manage  
across the information  
lifecycle – regardless of  
format

# Expanding solution set

- Advisory services
- Retention policy with privacy overlay
- Iron Cloud for compliant info management
  - Video surveillance
  - Isolated recovery
  - Tape to Cloud migration
- Data Centers
- Workflow automation
- Records Management as a Solution
- Blockchain POC

# Iron Mountain capabilities



# DX impact on the Info Pro

- Placement of RIM/IG in an organization
  - IT versus Legal/Compliance?
  - Data Officer?
  - Other?
- Knowledge about technology a must
  - Blockchain
  - AI
  - Data analytics
  - Cloud-based storage/solutions
- Behavioral shift
- Certifications – what's next?



THE IRON MOUNTAIN  
DIFFERENCE:

PASSION TO PROTECT

THANK  
YOU!

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