

# Digital Preservation

Sharon McMeekin  
Head of Training and Skills  
Digital Preservation Coalition



Digital Preservation Coalition

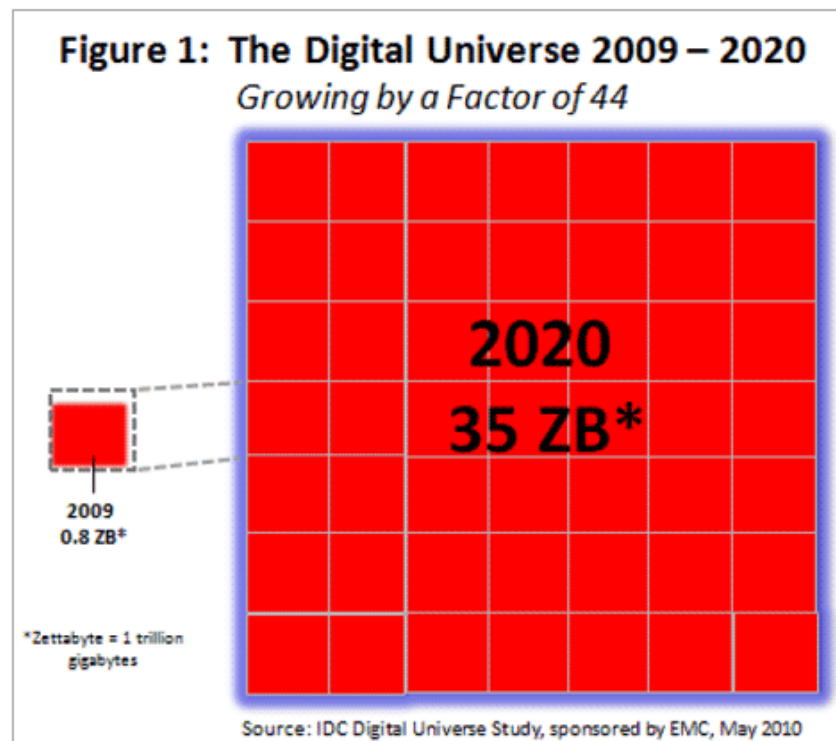
Part One:

Why should we care about  
Digital Preservation?

# Growing at an Exponential Rate

## 'Digital Universe' Nears A Zettabyte

May 4th, 2010 : Rich Miller



The Great Recession hasn't slowed the breakneck growth of the Digital Universe. In 2010 the volume of digital information created and duplicated in a year will reach 1.2 zettabytes, according to new data from IDC.

# Data is the New Oil?

## Facebook Inc

NASDAQ: FB - 11 Mar 16:00 EST

109.41 USD ↑ 2.09 (1.95%)

1 day 5 day 1 month 3 months 1 year 5 years max



Open 108.48  
High 109.42  
Low 107.92

Mkt cap 310.86B  
P/E ratio 84.82  
Div yield -

Google Finance - AOL Money - Yahoo Finance

Disclaimer

*Cash Value: \$6.3bn*

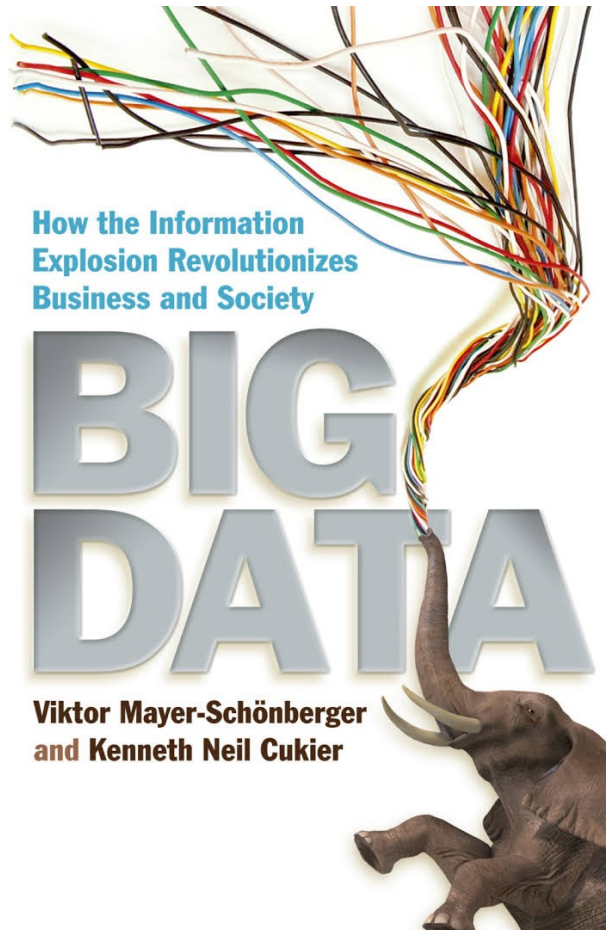
*Share Valuation: \$104bn*

*Intangible assets: \$97.7bn  
(10 dollars every 3 seconds  
non stop for 950 years)*

*Pieces of data: 2.1trillion*

*Price per datum: \$0.05*

# It Needs to be Useable (1)



*“...The crux of data’s worth is its seemingly unlimited potential for re-use: it’s option value. ...most of data’s value lies in its use not in its possession”*

(Mayer-Schonberger and Cukier 2015)

## It Needs to be Useable (2)

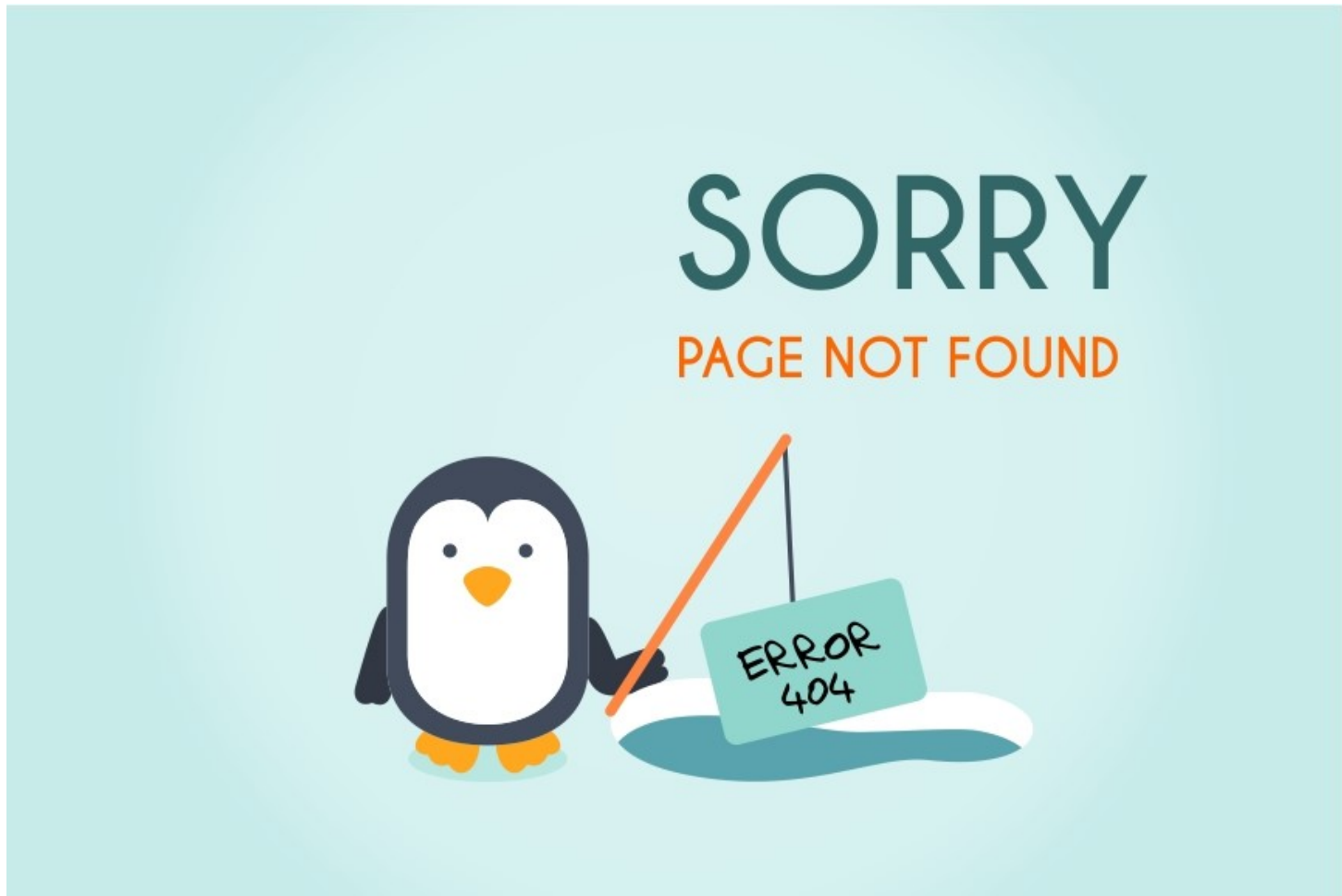
*‘It’s not like finding a needle in a haystack: it’s like finding a needle in Germany.’*

(Paul Miller, DPC Briefing Day on Linked Open Data, July 2013)



G. Bembridge 2012 <https://www.flickr.com/photos/tipsfortravellers/>

# It Can Disappear Quickly



# Corporate Abandonment

Nook

GoogleCode

GeoCities

GoogleWave

Knol

Friends ReUnited

Yahoo Mail

Blipfoto

MySpaceBlo

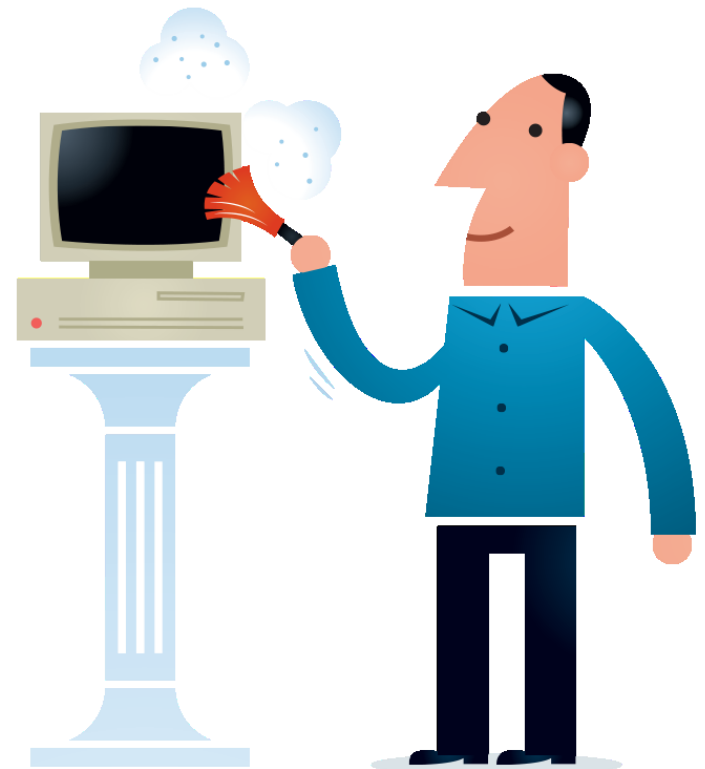
Yahoo 360

del.icio.us

MyBlogLog

BeBo

Classic



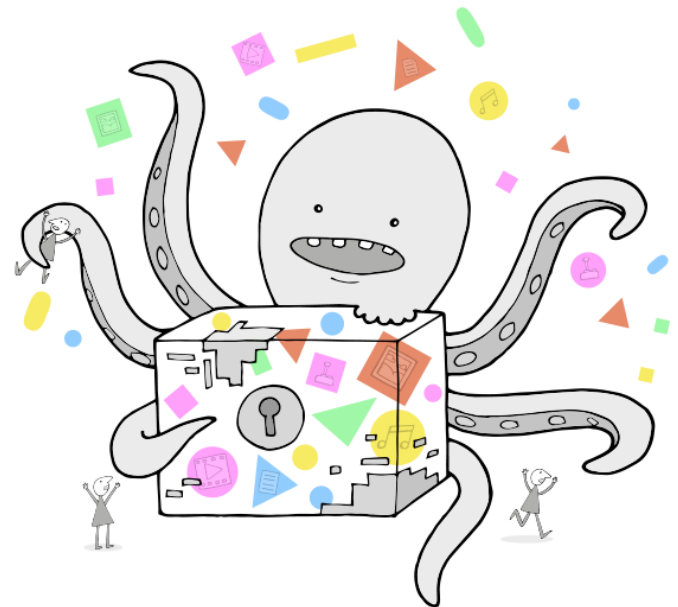


# People are a Big Threat

Accidents Happen  
but also...

People With Things to Hide....

- US Environmental Data
- Hillsborough Enquiry
- Leave.EU



# Why We Preserve....

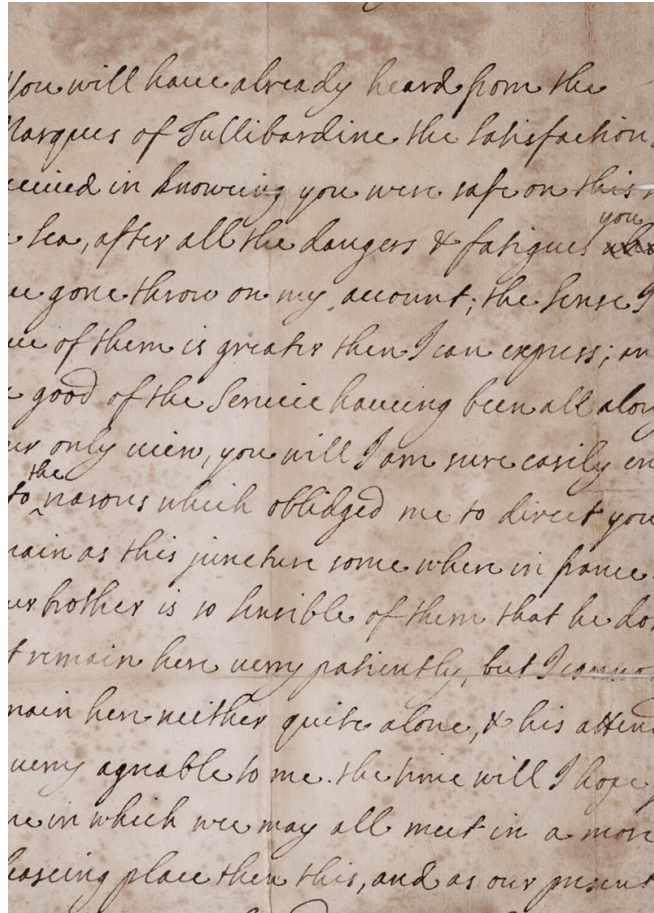
- Legal and Regulatory Compliance
- Increased Efficiency
- New Revenue Streams
- Improving Health
- Protecting the Environment
- Enabling Research
- Documenting Cultural Heritage
- Ensuring Transparency and Accountability



Part Two:

So, what's the problem?

# Traditional Media



- Robust
- Tangible
- Independently understandable
- Well-developed approaches to preservation
- Experienced in assigning value

# Digital Information

- Ephemeral
- Need tech to interpret
- Obsolescence
- How to estimate value?
- New skills and solutions required
- But also new opportunities!



# Risks to Digital Information

Media failure

Media obsolescence

Software failure

Software obsolescence

Inaccessible file format

Format migration errors

Loss of media

Disaster

Broken dependency

Failure of systems integration

Data Theft

Virus or malware

Poor documentation

Poor rights management

Lost encryption key

Poor version control

Inadvertent deletion

Malicious deletion

Poor file-naming

Corruption

Link rot

...

# What's the Problem?

Digital data (images, documents etc.) have value and create opportunities

...but...

Access depends on software, hardware and people

...and...

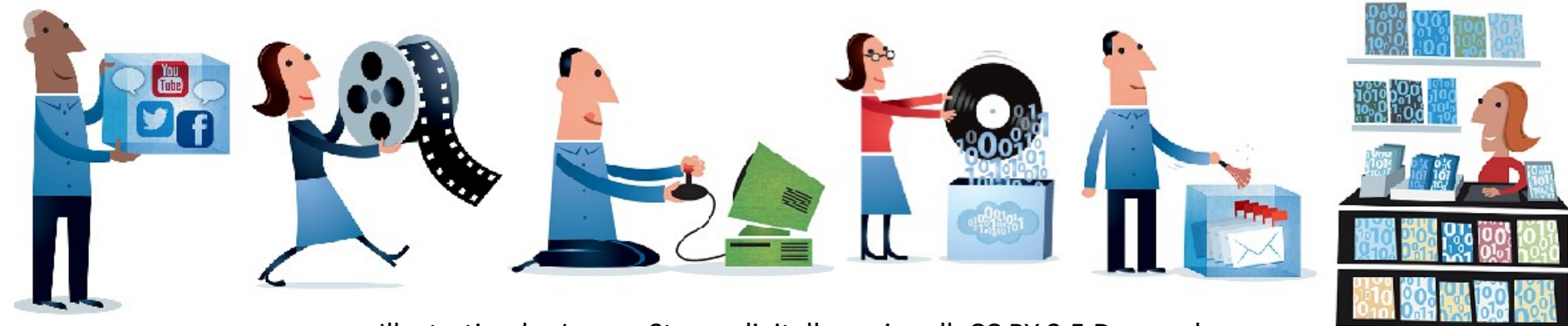
Technology and people change, creating barriers to reuse

...therefore...

We need to actively manage data to protect and create opportunities

# What is Digital Preservation?

“the series of managed activities necessary to ensure continued access to digital materials for as long as necessary”  
(Digital Preservation Handbook)





Part Three:

Seems like Digital

Preservation is hard.....

AKA – Stuff I wish I'd known  
about/had access to.....

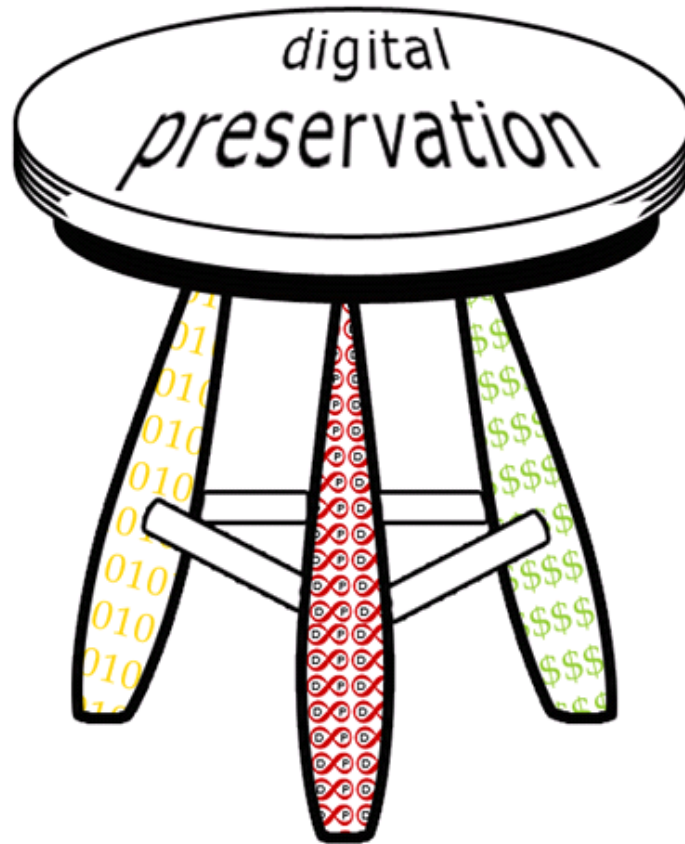
# Where Do I Start?



[www.digitalbevaring.dk](http://www.digitalbevaring.dk)



# Models: Three Legged Stool





# Other Standards

- Metadata – METS and PREMIS
- Information Packages – E-ARK Project
- Audit and Certification – Core Trust Seal, ISO 16363...
- Data Security
- File Formats



# Vendors/Service Providers

- Arkivum
- Artefactual
- Ex Libris
- FormPipe
- Hanzo
- Keep Solutions
- Libnova
- Mirrorweb
- Preservica
- TownsWeb



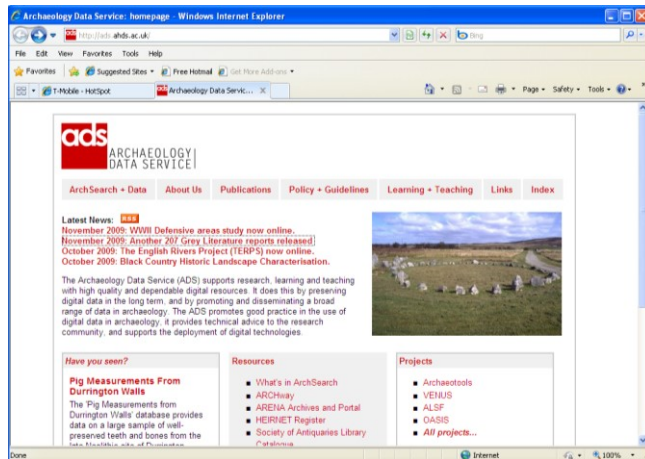
# Isn't It Expensive?



[www.digitalbevaring.dk](http://www.digitalbevaring.dk)



# Not in Comparison to the Costs of Looking After Physical Collections!



**Setup:**  
**Tens of thousands?**



**Setup:**  
**Tens of millions?**

# Is Digital Preservation Expensive?

## No!

- But it is an unfunded mandate
- Don't throw money at it
- Get the mandate properly incorporated

# Do We Have the Skills?

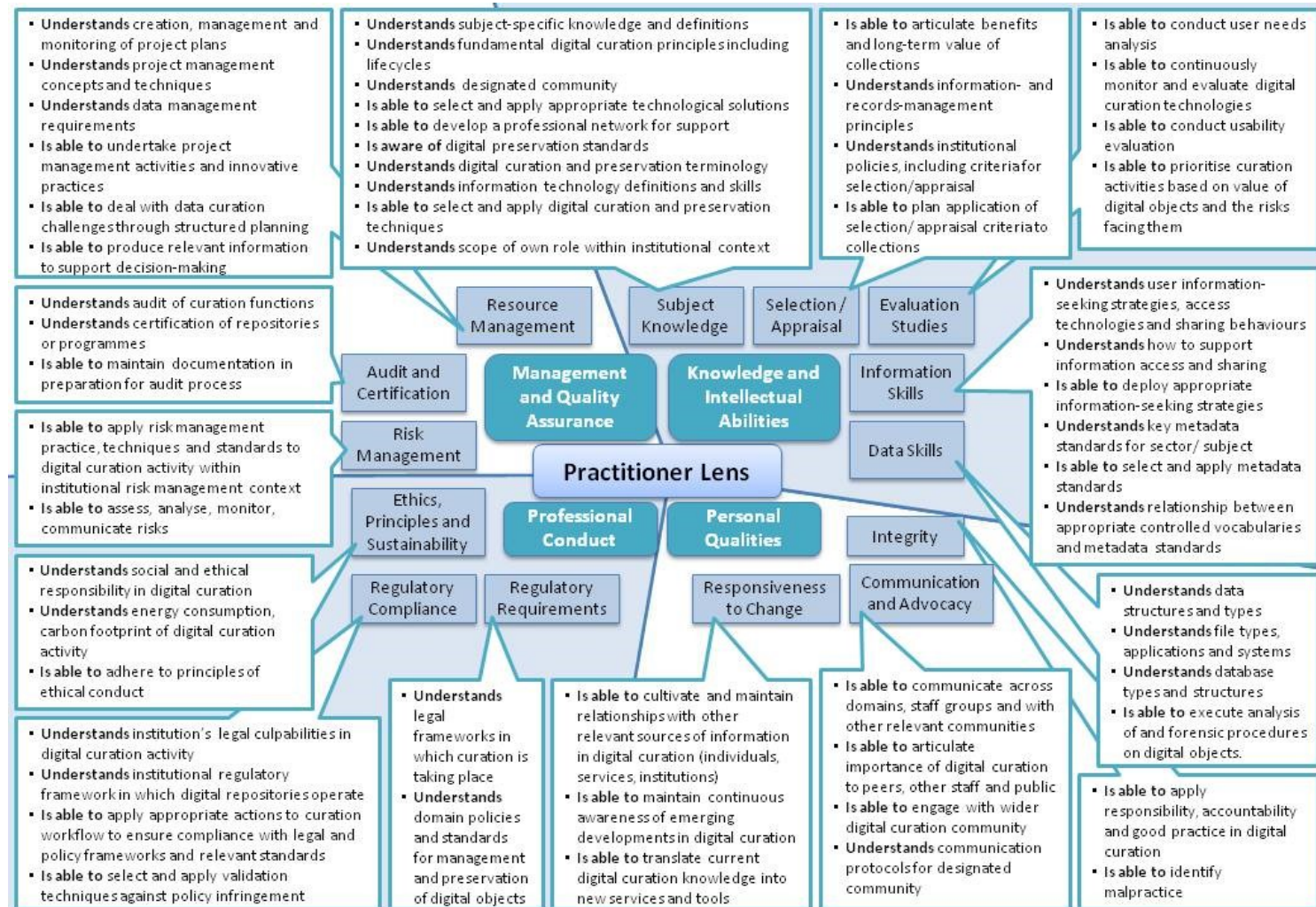


# A New Profession?

- Skills gaps
- Increasing recruitment
- Collaborative field
- Traditional Skills Relevant
- Be Adaptable
- Well paid!



# DigCurV Framework



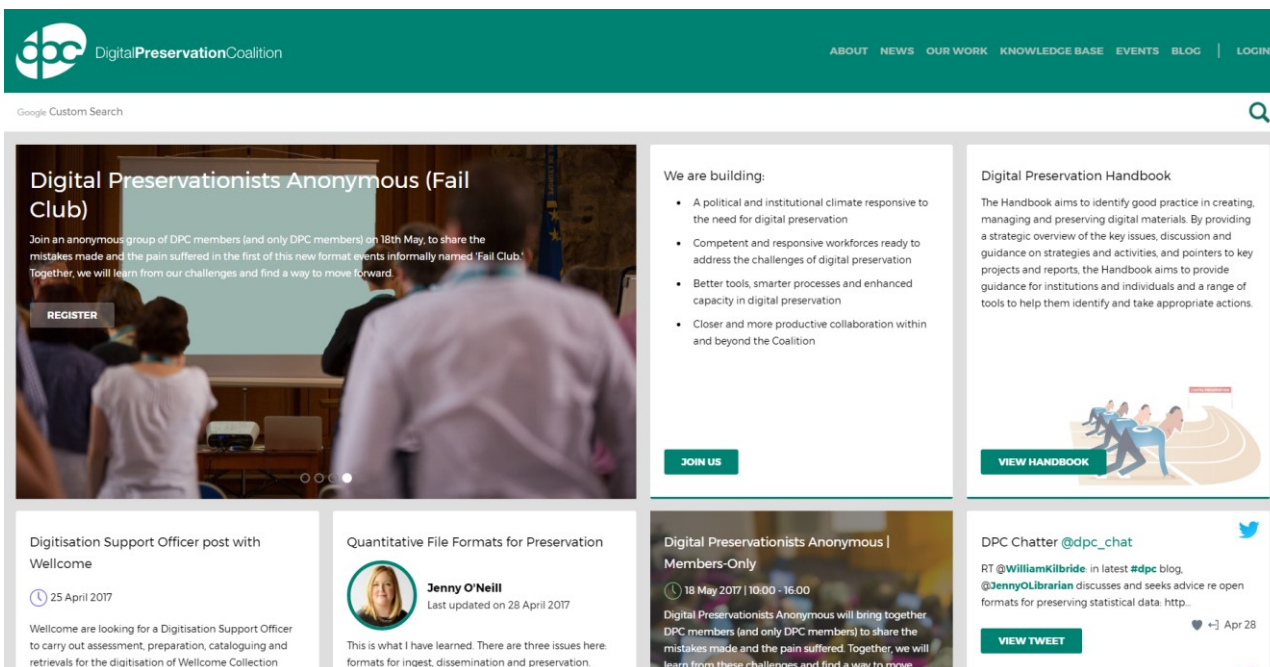
# And Finally: A Little on the DPC



# Digital Preservation Coalition

*We exist to “secure our digital legacy”*

80+ Members and 6 Supporters



The screenshot shows the Digital Preservation Coalition website. The header is green with the DPC logo and navigation links: ABOUT, NEWS, OUR WORK, KNOWLEDGE BASE, EVENTS, BLOG, LOGIN. Below the header is a search bar. The main content area features a large banner for 'Digital Preservationists Anonymous (Fail Club)' with a 'REGISTER' button. To the right, there's a section 'We are building:' with a list of goals and a 'JOIN US' button. Further right is the 'Digital Preservation Handbook' section with a 'VIEW HANDBOOK' button. The bottom section contains four smaller articles: 'Digitisation Support Officer post with Wellcome', 'Quantitative File Formats for Preservation' by Jenny O'Neill, 'Digital Preservationists Anonymous | Members-Only', and 'DPC Chatter @dpc\_chat' with a 'VIEW TWEET' button.

**Digital Preservationists Anonymous (Fail Club)**  
Join an anonymous group of DPC members (and only DPC members) on 18th May, to share the mistakes made and the pain suffered in the first of this new format events informally named 'Fail Club'. Together, we will learn from our challenges and find a way to move forward.  
[REGISTER](#)


**We are building:**

- A political and institutional climate responsive to the need for digital preservation
- Competent and responsive workforces ready to address the challenges of digital preservation
- Better tools, smarter processes and enhanced capacity in digital preservation
- Closer and more productive collaboration within and beyond the Coalition

[JOIN US](#)

**Digital Preservation Handbook**  
The Handbook aims to identify good practice in creating, managing and preserving digital materials. By providing a strategic overview of the key issues, discussion and guidance on strategies and activities, and pointers to key projects and reports, the Handbook aims to provide guidance for institutions and individuals and a range of tools to help them identify and take appropriate actions.  
[VIEW HANDBOOK](#)

**Digitisation Support Officer post with Wellcome**  
🕒 25 April 2017  
Wellcome are looking for a Digitisation Support Officer to carry out assessment, preparation, cataloguing and retrievals for the digitisation of Wellcome Collection

**Quantitative File Formats for Preservation**  
 **Jenny O'Neill**  
Last updated on 28 April 2017  
This is what I have learned. There are three issues here: formats for ingest, dissemination and preservation.

**Digital Preservationists Anonymous | Members-Only**  
🕒 18 May 2017 | 10.00 - 16.00  
Digital Preservationists Anonymous will bring together DPC members (and only DPC members) to share the mistakes made and the pain suffered. Together, we will learn from these challenges and find a way to move forward.

**DPC Chatter @dpc\_chat**  
RT @WilliamKilbride: in latest #dpc blog, @JennyOLibrarian discusses and seeks advice re open formats for preserving statistical data: <http://>  
[VIEW TWEET](#) 🗨️ Apr 28





# We Do 6 Things...



- Advocacy
- Community Engagement
- Workforce Development
- Capacity Building
- Good Practice and Standards
- Management and Governance

# Advocacy



- BitList
- Digital Preservation Awards
- Advocacy Tools
- Advocacy Support



# Community Engagement



**World Digital  
Preservation Day**  
29 November 2018

- Webinars
- Blog
- Networking
  - Unconference
- Email List
- World Digital Preservation Day

# Workforce Development



- Training
  - Getting Started
  - Making Progress
- Leadership Programme
- Grants
- Student Conference
- Labour Market Intelligence
- Curriculum Development
- DP Handbook

# Digital Preservation Handbook



## Digital Preservation Handbook

### Explore the Handbook

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[Organisational activities](#)

[Technical solutions and tools](#)

[Content-specific preservation](#)

[Glossary](#)

### Digital Preservation Handbook



Illustration by Jørgen Stamp digitalbevaring.dk CC BY 2.5 Denmark

Welcome to the revised 2nd edition of the Digital Preservation Handbook. A key knowledge base for digital preservation, peer-reviewed and freely accessible to all.

"Overall the improvements to the Handbook make it, in my opinion, one of the more useful and flexible tools for identifying, understanding and getting to grips with practical approaches to the varying challenges of digital preservation. It uses approachable language, clear terminology and provides useful links to case studies and further reading which will be of





# Capacity Building



- Technology Watch Reports
- Briefing Days
- Digital Preservation Anonymous
- Research Projects

# Good Practice and Standards



- Standards Development
  - OAIS Review
- Understanding member needs
- Talking to vendors
- Certification and accreditation

# Good Governance



- Member owned and member led
- Transparent
- Accountable
- Responsive





[www.dpconline.org](http://www.dpconline.org)

[sharon@dpconline.org](mailto:sharon@dpconline.org)

@SharonMcMeekin

