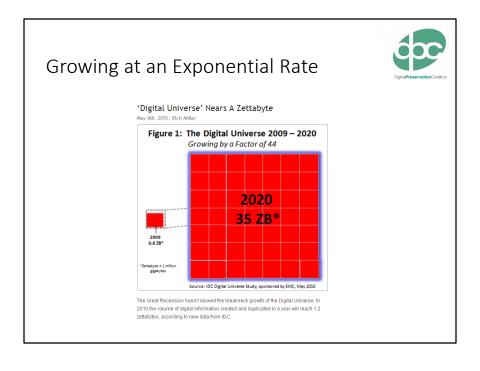
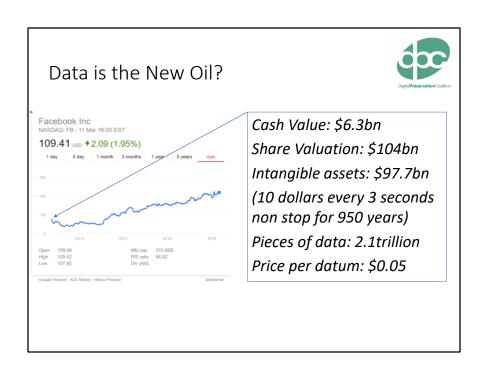
## Digital Preservation

Sharon McMeekin Head of Training and Skills Digital Preservation Coalition



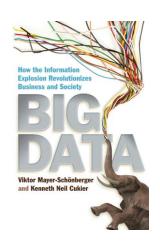
Part One:
Why should we care about
Digital Preservation?





## 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)

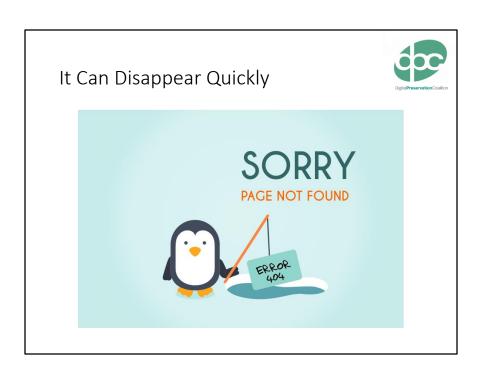


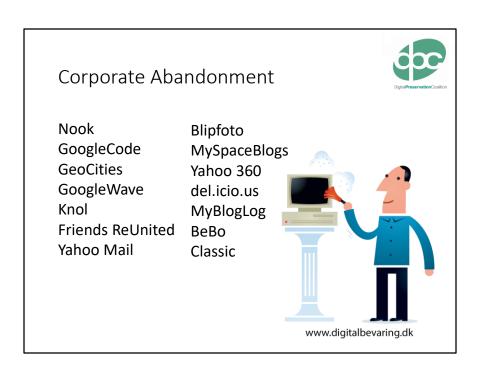
'It's not like finding a needle in a haystack: it's like finding a needle in Germany.'

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



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







## 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



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

- Traditional objects are generally quite robust
- They are tangible, we can hold them in our hands
- Are generally independently understandable (if you speak the language they are written in....)
- We are quite experienced in understanding their worth and assigning value to such objects

## Digital Information

Digital Preservation Cosition

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



- Digital objects are ephemeral by their very nature
- They very susceptible to obsolescence as they are entirely dependent on the media they are stored on, the accessibility of their file format and often require documentation to use and understand them
- Managing issues such as rights can also be much more difficult, from protecting copyright to ensuring personal data is protected
- They require us to gain new skills to care for them, or for us to work with new groups of colleagues with different skills groups (particularly IT specialists)
- But they do also bring a whole host of new benefits, in particular the ability to make content accessible to users.



## Risks to Digital Information

Media failure Virus or malware Media obsolescence Poor documentation Software failure Poor rights management Software obsolescence Lost encryption key Inaccessible file format Poor version control Format migration errors Inadvertent deletion Loss of media Malicious deletion Disaster Poor file-naming Broken dependency Corruption Failure of systems integration Link rot

Data Theft

#### 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?

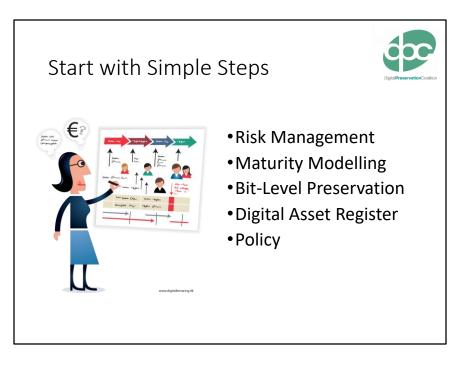
"the series of managed activities necessary to ensure continued access to digital materials for as long as necessary" (Digital Preservation Handbook)



#### Basic definition of DP

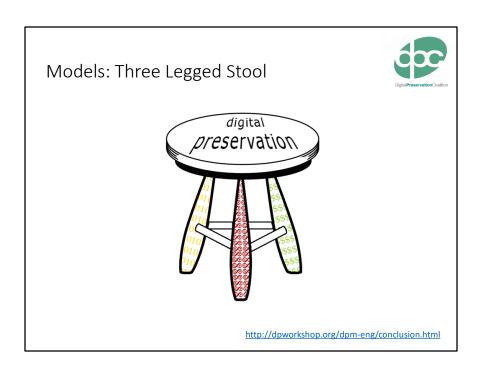
'Managed activities' important, could be rephrased as managing the risks that threaten digital objects Part Three:
Seems like Digital
Preservation is hard.....
AKA – Stuff I wish I'd known about/had access to.....

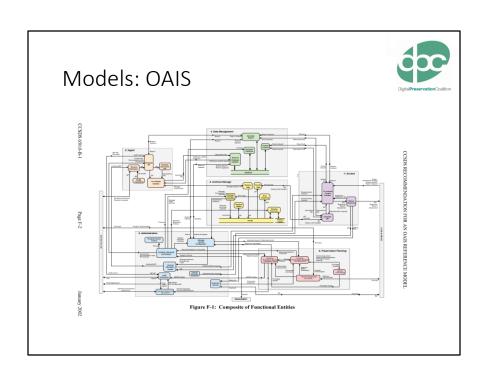




NDSA Levels of Digital Preservation - https://ndsa.org//activities/levels-of-digital-preservation/

DPCMM - http://www.securelyrooted.com/dpcmm/

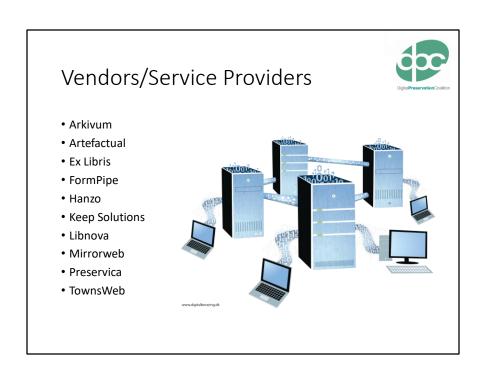




## Other Standards

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







## 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

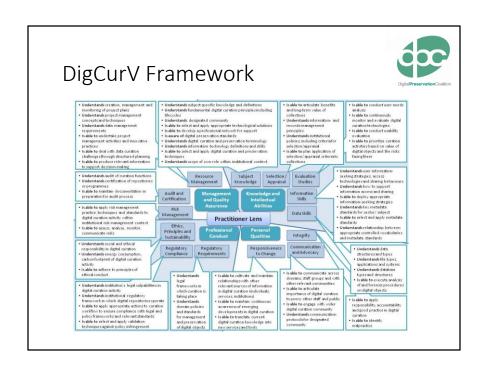


## A New Profession?

DigitalPreservationCositi

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





## The People are Great and I Get to Travel!

- UK
- Ireland
- The Netherlands
- Germany
- Belgium
- Italy
- Austria
- USA
- Hungary
- Portugal
- Slovakia

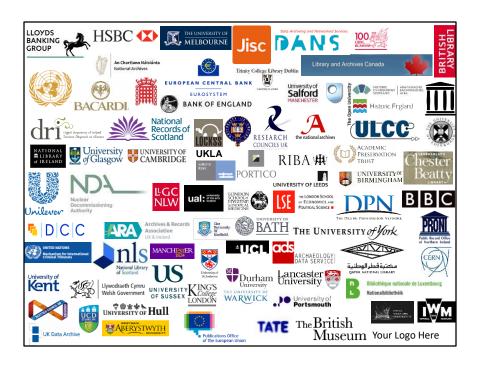




# And Finally: A Little on the DPC



http://www.dpconline.org



## 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



- 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



http://dpconline.org/handbook

## 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



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