

The Bit list

John McDonough
National Archives of Ireland

Overview

- Who is the DPC
- What we do
- Why the Bitlist
- Process
- Examples
- Findings
- Conclusion

The Digital Preservation Coalition



...a secure digital legacy...

- *Not for profit*
- *Member owned, member run*
- *International, vendor neutral*
- *Cross-sector, cross-discipline*

LLOYDS BANKING GROUP



HSBC



THE UNIVERSITY OF MELBOURNE



Jisc

Data Archiving and Networked Services
DANS

LSE

THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

BBC

UNITED NATIONS
Mechanism for International Criminal Tribunals



Trinity College Library Dublin



Library and Archives Canada



100 CBHC RCAHMW



ONLINE TATE

National Records of Scotland



BANK OF ENGLAND



LOCKSS UKLA



RESEARCH COUNCILS UK

the national archives



Historic England



EUROPEAN CENTRAL BANK



UNIVERSITY OF CAMBRIDGE

EUROSYSTEM



wellcome library
wellcome collection

ual university of the arts london

RIBA

UK Data Archive



NDA
Nuclear Decommissioning Authority

ILGC NLW

University of Kent

Durham University

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE



UNIVERSITY OF LEEDS



PORTICO



University of Portsmouth

DICIC

nls
National Library of Scotland

ARA
Archives & Records Association UK & Ireland

MANCHESTER 1824

UCL



NATIONAL LIBRARY OF IRELAND

The University of Sheffield



The Open University

ACADEMIC PRESERVATION TRUST

PRONI
Public Record Office of Northern Ireland



Llywodraeth Cymru
Welsh Government

KING'S COLLEGE LONDON

UNIVERSITY OF Hull

THE UNIVERSITY OF WARWICK

University of Glasgow



ULCC

dri
Digital Repository of Ireland
Taisiann Dhiigitach na hÉireann

PRIFYSGOL ABERYSTWYTH UNIVERSITY

ROYAL MUSEUMS GREENWICH

SCOTTISH COUNCIL ON ARCHIVES

ads

ARCHAEOLOGY DATA SERVICE

LIBRARY HSI LIB



Together we do 6 things ...

- **Advocacy:** raising awareness about digital preservation
- **Community Engagement:** a mutually-supportive, global DP community
- **Workforce Development:** competent and responsive workforces
- **Capacity building:** high quality and sustainable digital preservation
- **Good practice and standards:** making digital preservation achievable
- **Governance:** A stable and trusted platform for collaboration



Bits Decay: Do Something Today

30th November 2017

Advocacy...

- The BitList (more in a moment!)
- Digital Preservation Awards
- IDPD
- Public policy consultations
- Press and media
- Internal Advocacy
- #nodigitaldarkage
- Business Case Toolkit
- ...



Community ...

- 'Dating Agency'
- Webinars
- FailClub
- Email lists
- Blogs
- Wiki
- ...



Skills ...

- DP Handbook
- Getting Started
- Making Progress
- Leadership Programme
- Student Conference
- ...

handbook.dpconline.org



Capacity ...

- Email Preservation Task Force
- PDF Validation
- JPEG 2000
- Social media
- Transactional data
- Briefing Days
- Technology Watch Reports
- ...

dpconline.org/knowledge-base



Standards ...

- Certification and review
- Accreditation
- OAIS Community Wiki
- ...



Trusted platform ...

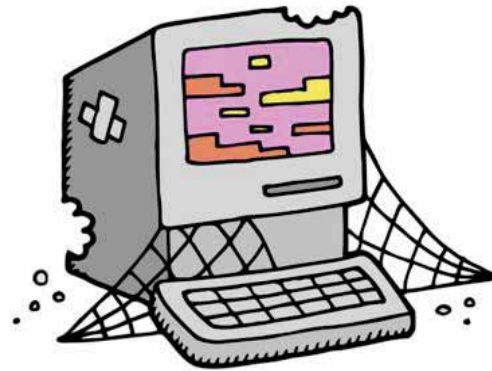
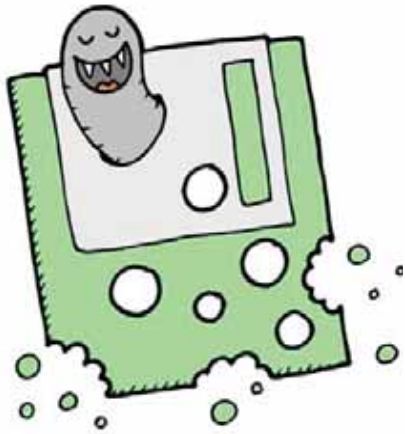
- Board
- Representative Council
- Thematic Subcommittees



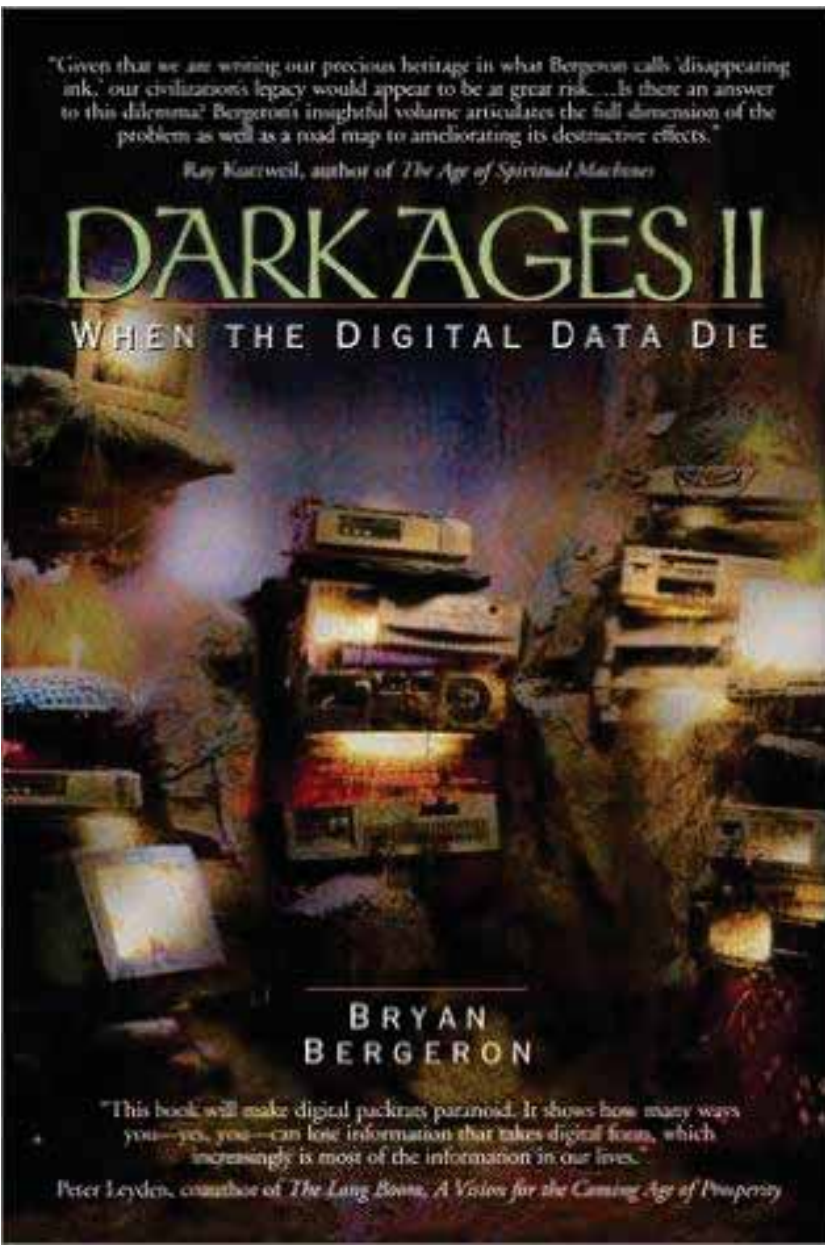
The #BitList

also known as the 'Global List of Digitally Endangered Species'

Digital Preservation typically makes bleak reading ...



Your details here:



...very bleak reading: e.g. the Digital Dark Age

Dark Ages II shows why our data is at far greater risk than we've ever imagined—and envisions a frightening future, where so much critical information is lost that civilization itself could collapse.

Tempting?

- *Gets attention*

Realistic?

- *Coming soon: the apocalypse*
- *The disk / tape / cat that never dies*
- *Ignores some really great work...*



REALLY GREAT WORK





REALLY CLEVER PEOPLE





MORE THAN TEN YEARS



And still ...

Google's Vint Cerf warns of 'digital Dark

sh
;pendent, BBC News, San Jose



INDEPENDENT News InFact Politics Voices *Indy* Life Business Sport Tech Culture *Subscribe*

'DIGITAL DARK AGE' COULD LEAVE HISTORIANS WITH NO RECORDS OF THE 21ST CENTURY

Resident engineer John Roberts poses as he looks at the millions of newspapers stored on racks at the National Newspaper Archive in Boston (Spa). The British Library's brand new National Newspaper Building has officially opened. The newly built storage visit



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What is M-DISC?
The 1,000 Year M-Disc: Your Life, Engraved in Stone.

FOREVER STORAGE

Is DNA the best way to store data?

1. Smart molecule
2. CLICKABLE: Perfect data store?
3. Replacing hard drives with DNA
4. Success stories
5. Where next?



theguardian
Winner of the Pulitzer prize 2014

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Google's Vint Cerf on how to prevent a digital dark age



Digital **Preservation** Coalition

No digital black hole



We want to set the agenda

Two simple initiatives to draw attention to good work and focus on what needs done:



- *International Day of Digital Preservation 30th November*
- *TheBitList*

The Global List of Digitally Endangered Species

#bitlist - background



- Proposal from DPC advocacy committee
- Modelled on the 'Red List'
- Eight categories:
- Mix of successes and challenges
- Mix of types, mix of risks
- Created from scratch
- If it works, updated annually
- (invitation to ICA!)

The Global List of Digitally Endangered Species #bitlist - process



- Nominations in September (circa 100 proposals)
- Jury met three times in October (20 members, 3 continents, 7 countries)
- List finalised and reviewed in November
- Published 30th November 2017

The Global List of Digitally Endangered Species #bitlist – some examples



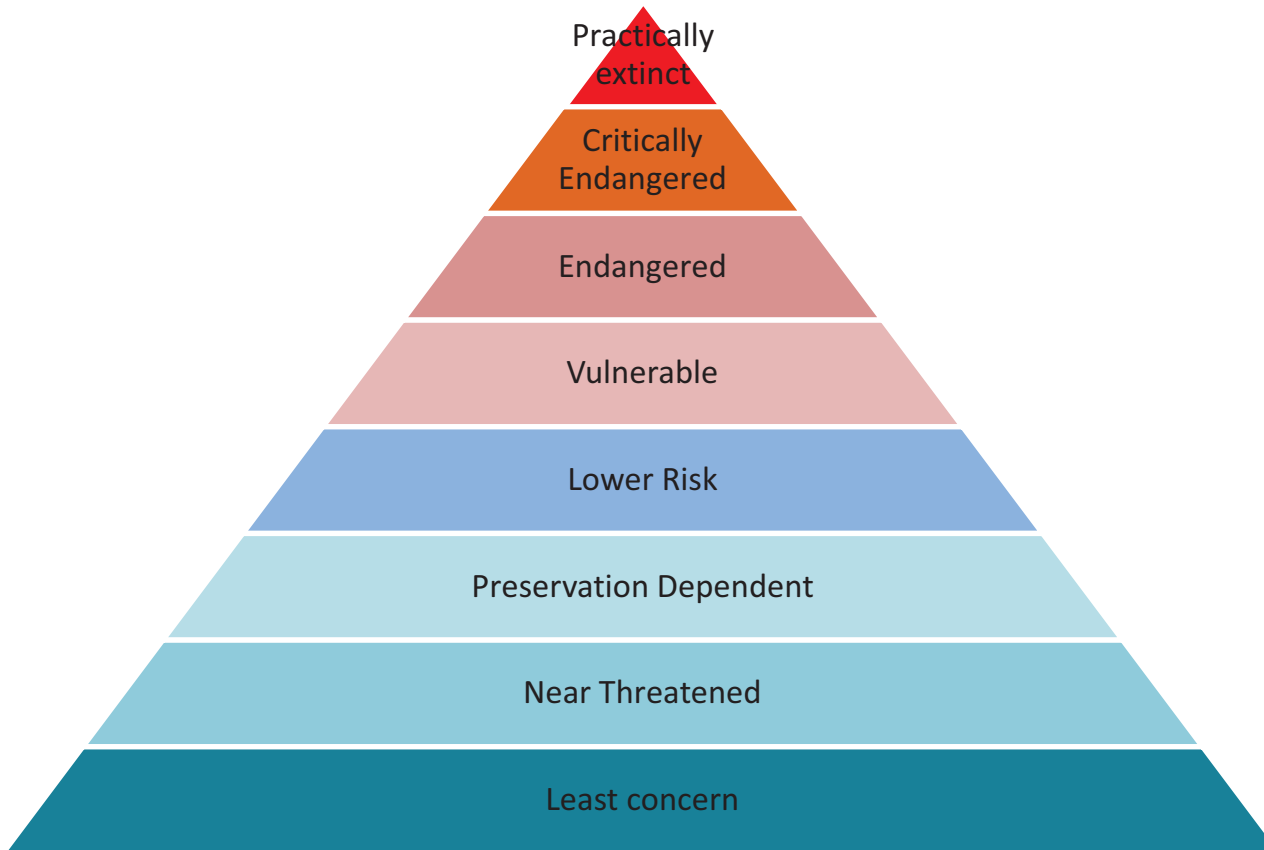
- Born digital news coverage
- US environmental data
- Scientific research data
- Amstrad PCW from late 1980's
- ESRI Shape Files
- WhatsApp conversations
- Files on Google Drive
- Media Art
- Community Archives
- ...

Criteria

- Assessment of significance by nominator
- Assessment of wider significance
- Viability of Proposal
- Likelihood of loss
- Inevitability of loss
- Impact of loss to nominator
- Wider consequence of loss
- Imminence of Loss
- Star Quality



Categories



Axolotl



Cenzontle

Classes

- Police and Judiciary Records
- Digital Radio Recordings
- Born Digital Photos
- Teletext and related
- Gaming
- Domesday part two
- Community Content
- Portable Magnetic Media
- Politically Sensitive Data
- Personal and Family Records
- Corporate Intranets and related
- Smart Phone Apps
- Local Government and Government Agency Records
- Digital Music Production and Sharing
- Media Art
- Social Media
- Research outputs
- Non-magnetic portable media
- Data from Proprietary or Obsolete Software

Conclusion

- Results will be announced on 30th November
- Could the ICA run its own BitList for ICA 2018
- DPC is very Europe centric – would global results mirror this years findings?



Digital **Preservation** Coalition



Bits Decay: Do Something Today

30th November 2017