

# A Potential Digital Preservation Service for New Zealand

Andrea Goethals, National Library of New Zealand, eResearch NZ 2020



# The National Library of New Zealand

– offices in  
Auckland,  
Wellington &  
Christchurch



- Nationwide services to NZ schools, libraries, publishers, authors, businesses, researchers
- For researchers:
  - Use of the Library's collection, preserved as NZ's documentary taonga in words, sounds and pictures
  - Access to other national and international databases and resources
  - Support from subject experts, research specialists
  - Research guides
  - **New** – DOIs via the NZ DOI Consortium
  - **Future?** NZ digital preservation service

# Why are we considering a national digital preservation service?

- The National Library and Archives New Zealand have mature digital preservation programmes (~50 million invested in last decade)
- Other NZ organisations have digital content with enduring value – how many will be able to make & sustain the investment needed?
- Could we leverage these existing digital preservation programmes to provide digital preservation services for NZ?

## Technology

- repository
- tools
- storage
- security measures



## Organisation

- mandate
- staffing
- policies
- workflows

## Resources

- funding
- staff expertise
- business planning
- organisational commitment

# Our research questions to determine need and appetite for it

1. Is there “high value” digital content in New Zealand with long-term value?
2. Do NZ researchers and organisations already have the arrangements in place to ensure the safekeeping of and continued access to this high value digital content?
3. Would NZ researchers and organisations use a national digital preservation service if one were available?

# Surveys in 2015 and 2019

- CIOs of organisations known to generate data or conduct research
  - NZ's public sector (Public Service Departments, Departmental Agencies, Non Public Service Departments, Crown Entities, Crown Entity Companies, CoREs, Universities, Wānanga, large City Councils, Regional Councils)
  - Survey sent to CIO/CTO (role responsible for information management / knowledge management in their organisation)
- Researchers engaged in creating original data
  - eResearch NZ community
  - Survey sent to attendees of eResearch NZ 2015 & 2019 conferences



# 2015 findings

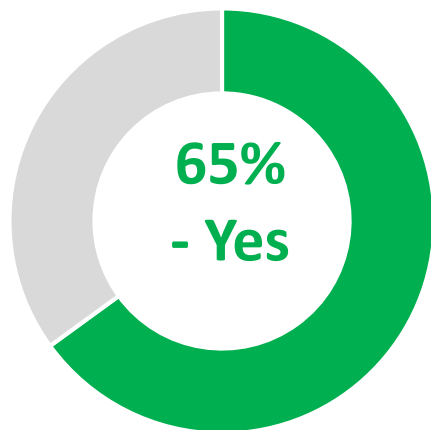
1. Is there “high value” digital content in New Zealand with long-term value? **YES**
2. Do NZ researchers and organisations already have the arrangements in place to ensure the safekeeping of and continued access to this high value digital content? **NO**
3. Would NZ researchers and organisations use a digital preservation service if one were available? **YES**

Repeated the surveys in 2019 to validate the findings and to see if anything had changed...

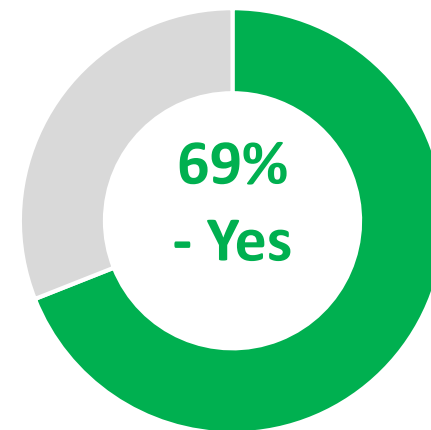
1. Is there “high value” digital content in New Zealand with long-term value?

eResearchers: Do you (or your team) create any high value digital content that contributes to economic, social, cultural or environmental outcomes, now or in the future?

*Finding: NZ researchers continue to create high value digital content*



2015

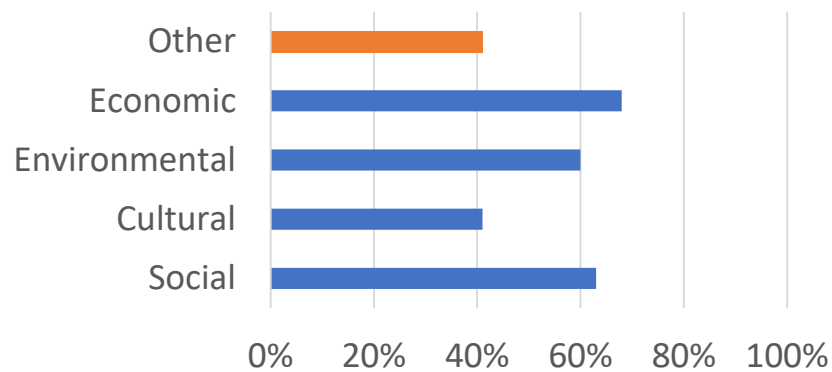


2019

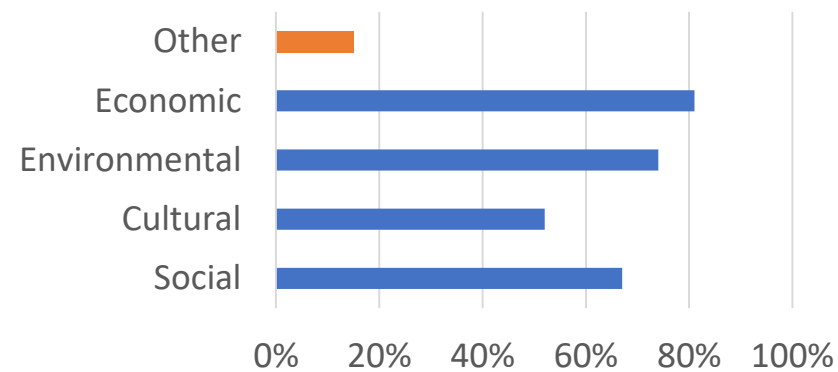


eResearchers: What are the types of outcomes your high value content contributes to?

*Finding: Researchers are clearer about the social, cultural, environmental and economic outcomes to which their research contributes.*



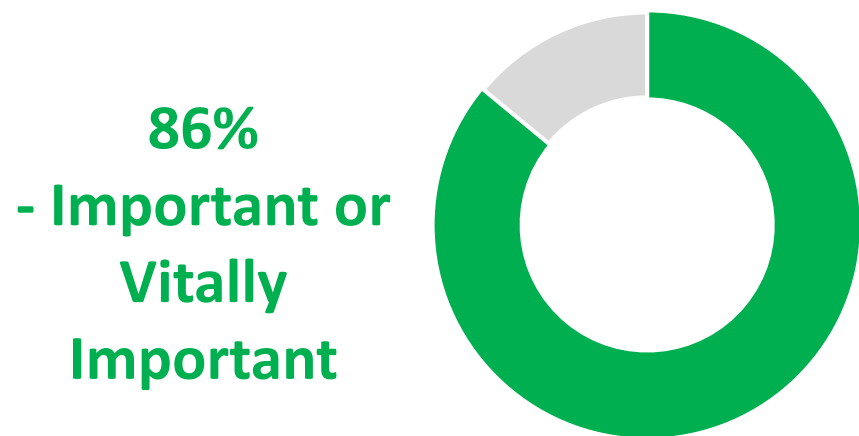
2015



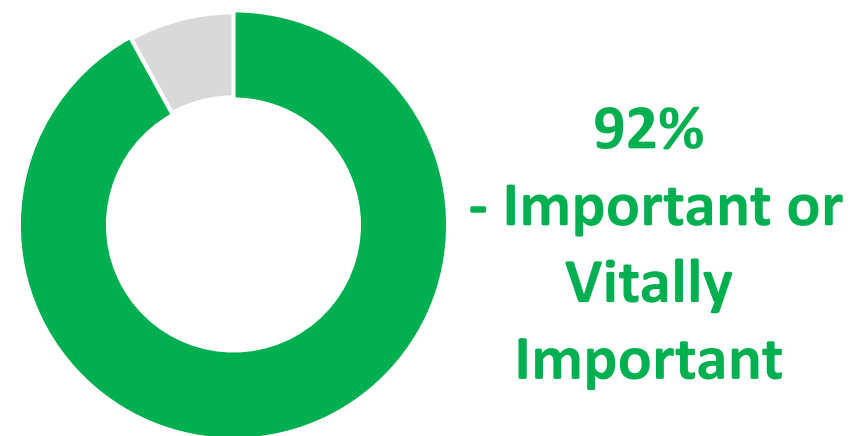
2019

eResearchers: Rate the importance to you of having the high value digital content you produce available for the long term in an accessible form

*Finding: The long term availability and accessibility of researchers' data continues to be very important to them.*



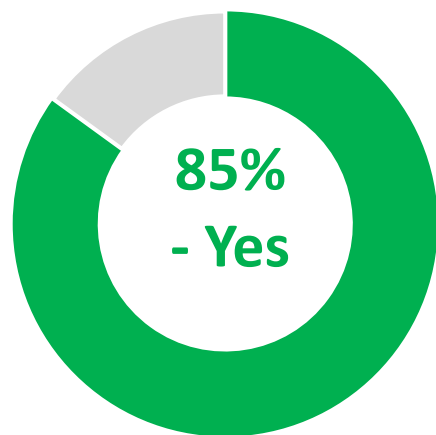
2015



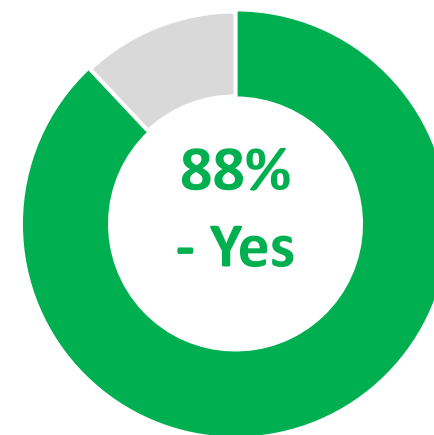
2019

CIOs: Does your organisation create high value digital content that contributes to economic, social, cultural or environmental outcomes, now or in the future?

*Finding: NZ organisations continue to create high value digital content*



2015

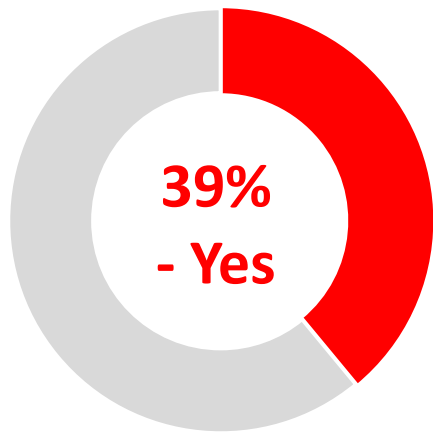


2019

2. Do NZ researchers and organisations already have the arrangements in place to ensure the safekeeping of and continued access to this high value digital content?

eResearchers: In the last 10 years, have you been unable to access any high value digital content you created?

*Finding: NZ researchers continue to have instances of losing access to their high value digital content.*

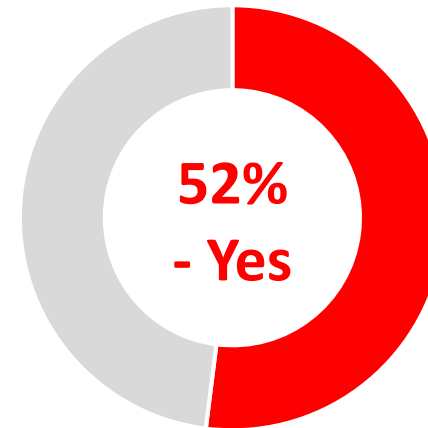


2015

(Last 10 years)

Why?

- Content deleted and no backup
- Content encrypted or restricted and no access info available
- Carrier would not open
- Carrier would open but content could not be read
- Software obsolete – could not read content
- Hardware obsolete
- No staff knowledge of software



2019

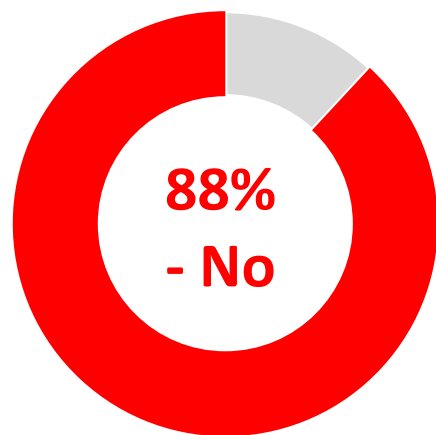
(Last 4 years)

Why?

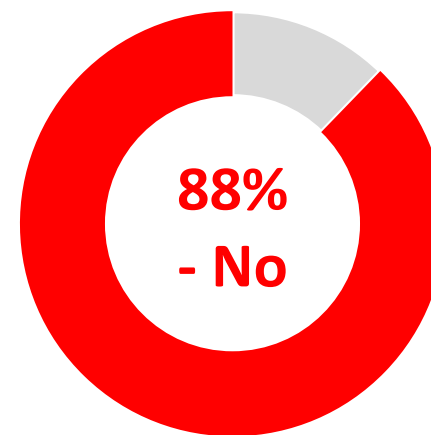
- Content deleted and no backup
- Content encrypted or restricted and no access info available
- Carrier would not open
- Carrier would open but content could not be read
- Software obsolete – could not read content
- Hardware obsolete

CIOs: Does your organisation have access to a digital preservation repository for your high value digital content?

*Finding: Most NZ organisations still do not have access to digital preservation repositories.*



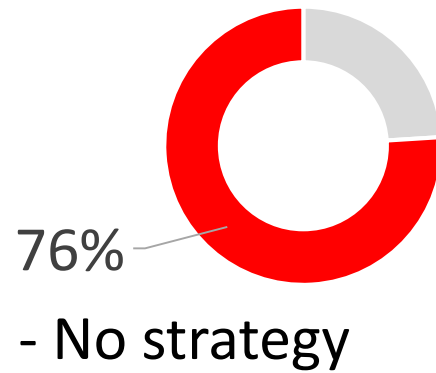
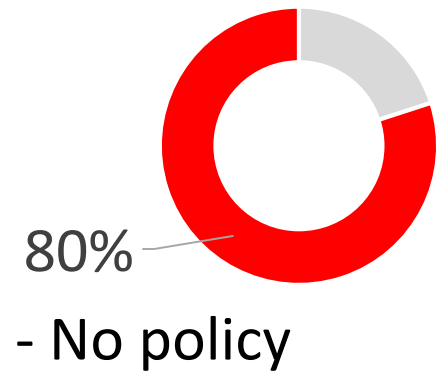
2015



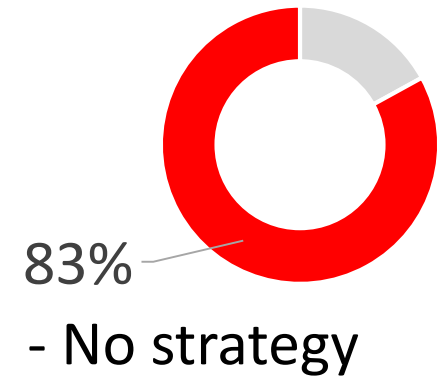
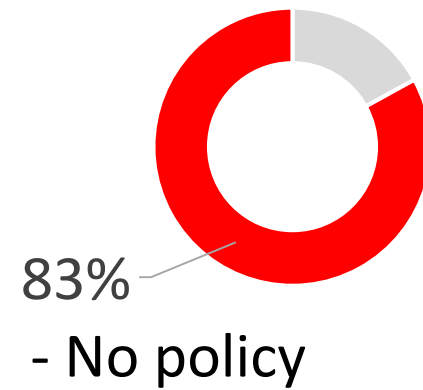
2019

CIOs: Does your organisation have a digital preservation policy or strategy?

*Finding: Most NZ organisations still do not have digital preservation policies and strategies in place to preserve their high value digital content.*



2015



2019



Source: 2019 CIO Survey

[illegible]

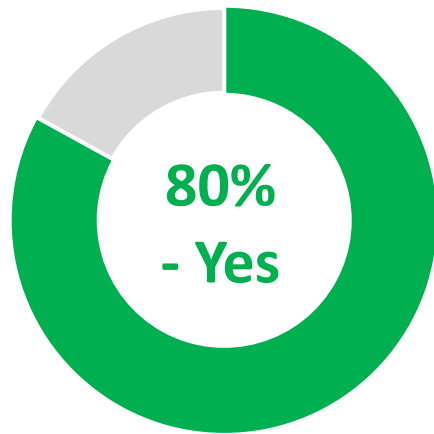
Source: 2019 CIO Survey

[illegible]

3. Would NZ researchers and organisations use a national digital preservation service if one were available?

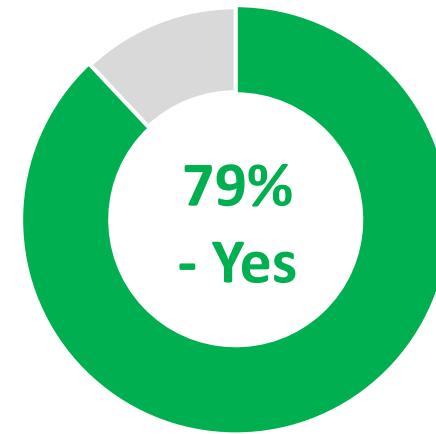
eResearchers: If a cost-effective NZ digital preservation service was available, would you use it for the high value digital content you create?

*Finding: NZ researchers are still interested in using a NZ digital preservation service, over half immediately.*



2015

- 32% would use it now
- 86% would use it within 2 years

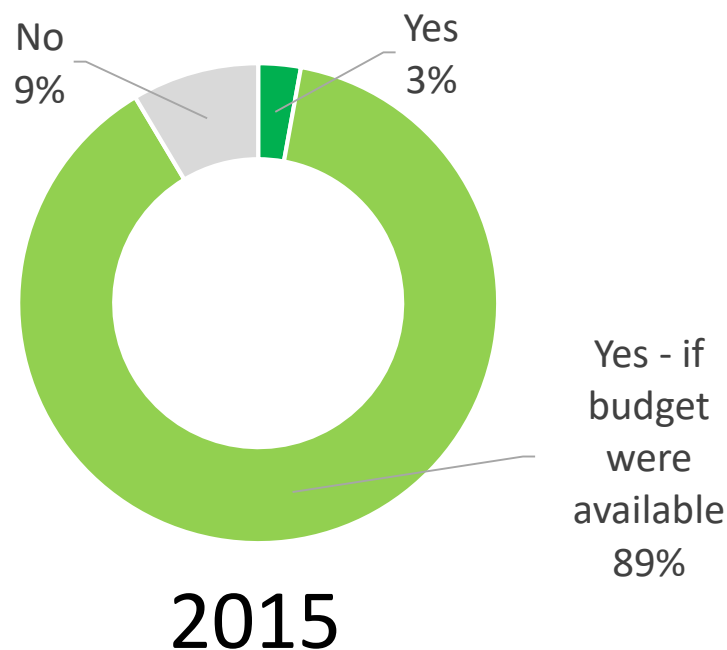


2019

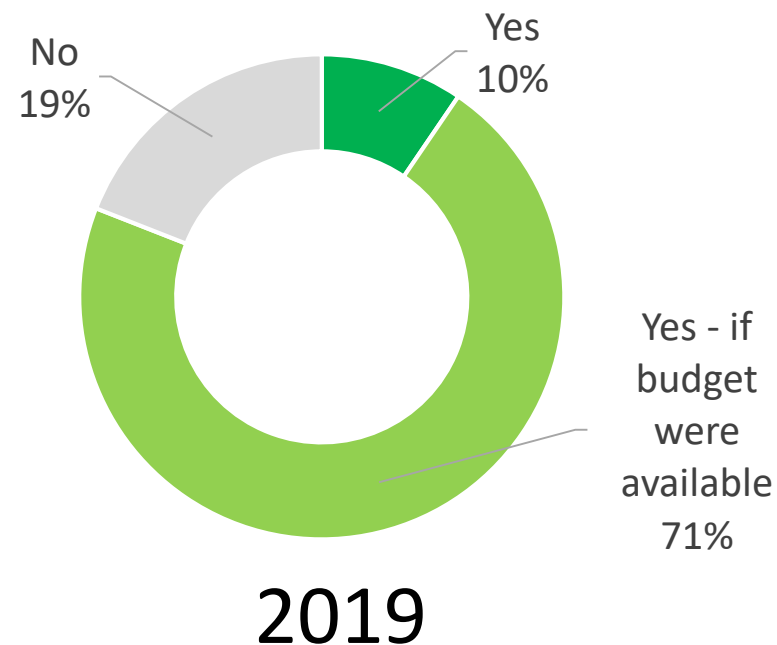
- 56% would use it now
- 95% would use it within 2 years

CIOs: If a cost-effective NZ digital preservation service was available, would your organisation be likely to use it?

*Finding: NZ organisations are still interested in using a NZ digital preservation service, if budget were available, over half within 2 years.*



- 13% would use it now
- 44% would use it within 2 years
- 94% would use it within 5 years



- 6% would use it now
- 50% would use it within 2 years
- 94% would use it within 5 years

# Conclusions

- NZ researchers and organisations continue to create high value digital content but most organisations still do not have robust arrangements in place to ensure its usability and safekeeping for the long term.
- Maintaining access to high value digital content is even more important for NZ researchers but they continue to have instances of losing access to it.
- The appetite for a reliable, cost-effective NZ digital preservation service remains high. Researchers have indicated they would use the service immediately, and organisations within 2 years.

# Next steps

- Define service offerings
  - Functions included
  - One option or multiple
- Develop cost models
- Identify organisations to pilot use of service



Thank you!

Questions?

[Andrea.Goethals@dia.govt.nz](mailto:Andrea.Goethals@dia.govt.nz)