



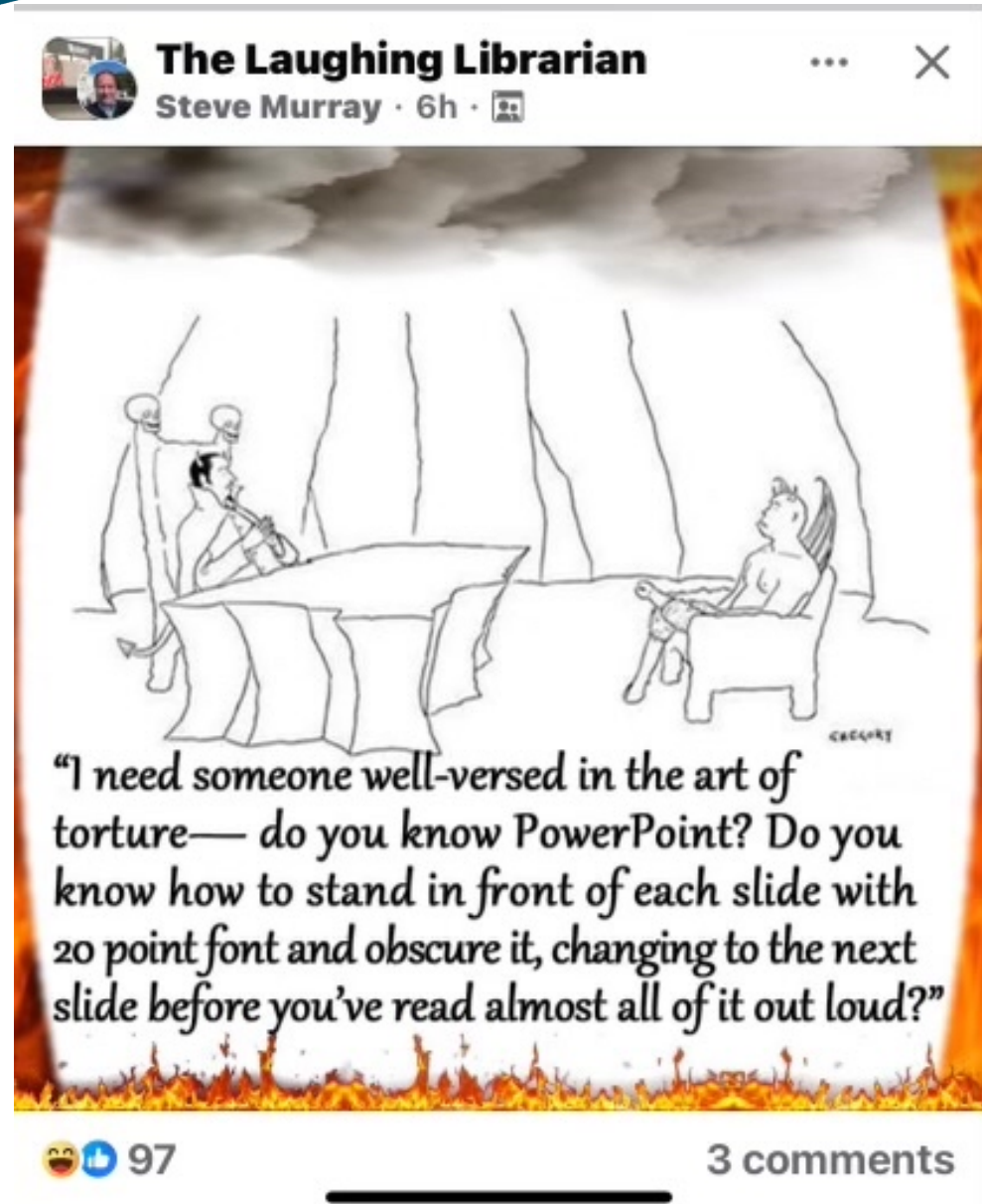
# A new era of sharing sustainable science with global agricultural communities

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<https://era.daf.qld.gov.au/id/eprint/14014/>



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# A quick history lesson

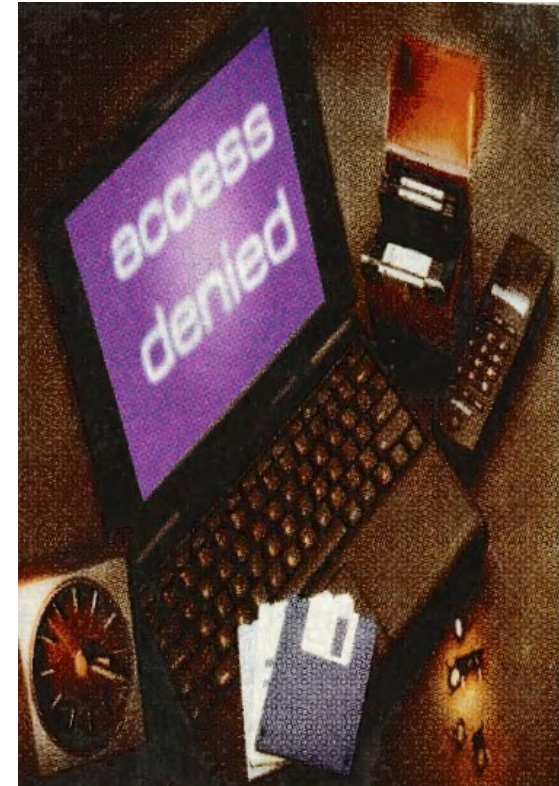
Harnad, Stevan (1999) [Free at Last: The Future of Peer-Reviewed Journals](#). *D-Lib Magazine*, Vol. 5, No. 12.

To free this literature virtually overnight, all its authors need do is to self-archive their own portion of it online in their institution's "e-print" archive. Free archive-creating software ([www.eprints.org](http://www.eprints.org)) is now available to make all such institutional e-print archives "interoperable" ([www.openarchives.org](http://www.openarchives.org)), hence "harvestable" into one global virtual archive (<http://cite-base.ecs.soton.ac.uk/cgi-bin/search>).

Free for everyone, everywhere, forever.

Harnad, Stevan (2001) In the name of freedom: [The \(Refereed\) Literature-Liberation Movement](#). *New Scientist*, 2292, 53.

Prof. Harnad spoke at Information Online in Sydney in 2001. As a result of his vision and the work of University of Southampton ePrints staff, our ePrints repository was created in 2001 by Systems Librarian, Geoff Collins.



# Timeline

2001 – internal repository created using eprints software

2003 – 500 records

2006 – evaluation of alternative software/hosting - ePrints3 hosted by University of Southampton

2008 – Open Access repository launched <https://era.daf.qld.gov.au/>

Macpherson, H. (2009) [\*eResearch Archive: reaching global agricultural communities\*](#). In: ALIES 2009 Conference, 5-9 April 2009, Emergency Management Australia, Mount Macedon, Victoria.

2009 – 766 records – 24% fulltext, 91% journal article records

– 16,393 downloads from 185 fulltext records

2011 – datasets option added, more government publications (manuals, guides, reports)

2012 – 1,508 records – 39% fulltext, 70% journal article records, 19% monographs

– 177,333 downloads from 836 fulltext records

- Format shifting with digitisation of 'How to' guides, reports
- Change in publishing of government information, website rationalisations, less Open Science
- 2012 Change of Government –“Farmers don't need libraries”

2012 – Change of Government - near elimination of repository and library service  
[\*Back from the brink: saving the Queensland Department of Agriculture Library.\*](#) In: ALIA National Conference : 2016, Adelaide.)

2013 –Transition to a fully Digital Library - Scientists rallied, Librarians adapted, demonstrated value/impact, focus on digital

**2022 – Landmark ['Read and Publish' agreements](#) via CAUL\* - Wiley, Springer, Oxford, Cambridge and CSIRO**

(\*Council of Australian University Librarians – DAF is an external member)

# Open Science - making taxpayer funded science available to all

Home > Our department > News > News > Agriculture >

RIS saved DAF authors more than \$100,000 in Open Access publishing fees in 2022

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1 Feb 2023

SPRINGER  
NATURE



OXFORD  
ACADEMIC



Cambridge  
Core

4500 eligible journals

Total APC savings to date – \$242,840

Highest R&P OA article download to date – 2927



# Repository integrated into Alma/Primo VE

Staff can search across all collections and content:

- Subscribed
- Journal articles, eBooks
- Internal digitised/born digital
- Print
- **eResearch Archive**
- + expand results option

The screenshot shows the Search@RIS website interface. At the top, the navigation bar includes links for 'New Search', 'Journals A-Z', 'Databases A-Z', 'DAF Digital Collections' (highlighted with a red box), 'RIS eLibrary', and 'Help'. Below the navigation bar is a search bar with the placeholder text 'Search anything'. To the right of the search bar is a dropdown menu with options: 'All Resources', 'Articles', 'Library Catalogue', 'DAF eResearch Archive' (highlighted with a red box), and 'DAF Digital Collections'. Below the search bar is a row of filters: 'All', 'Articles', 'Books', 'eBooks', and 'Journals'. The main content area is divided into two columns. The left column contains a list of search options: 'All Resources', 'Articles', 'Library Catalogue', 'DAF eResearch Archive', and 'DAF Digital Collections'. The right column contains a 'What is Search@RIS?' section with a description of the search service and links to various resources. A red callout box points to the 'All Resources' option in the left column.

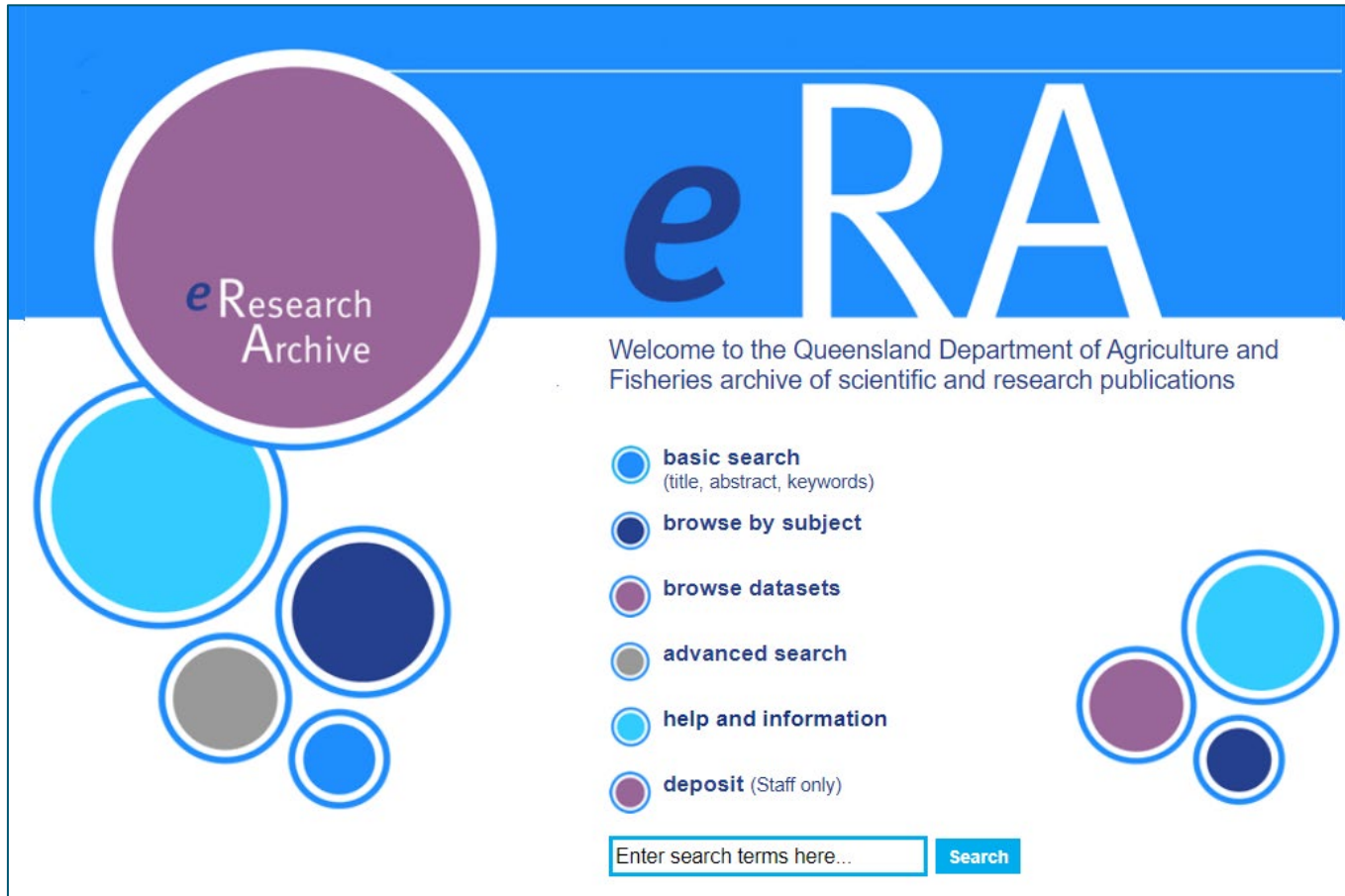
**DAF Digital Collections:** digitised material from our print archives as well as born digital content published by the Department.

# eResearch Archive 2024

eRA - journal articles  
since R&P OA  
agreements

2022 to current = 599  
Open access = 441

= 74% full text Open  
Access



The screenshot shows the eResearch Archive (eRA) website. The header features the 'eRA' logo in large white letters on a blue background. Below the header, a purple circle contains the text 'eResearch Archive'. A navigation menu lists several options: 'basic search (title, abstract, keywords)', 'browse by subject', 'browse datasets', 'advanced search', 'help and information', and 'deposit (Staff only)'. At the bottom of the menu is a search bar with the placeholder text 'Enter search terms here...' and a 'Search' button. The website is decorated with various colored circles in shades of blue, purple, and grey.



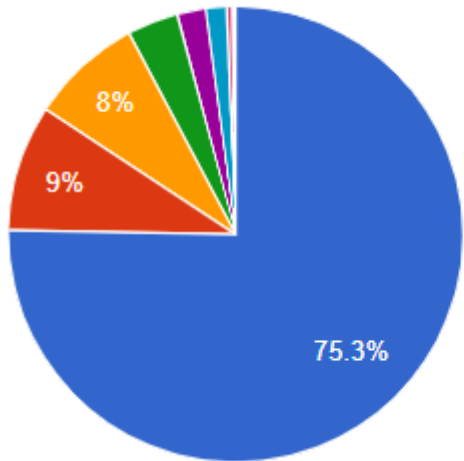
# Current Metrics



**11,589** Items

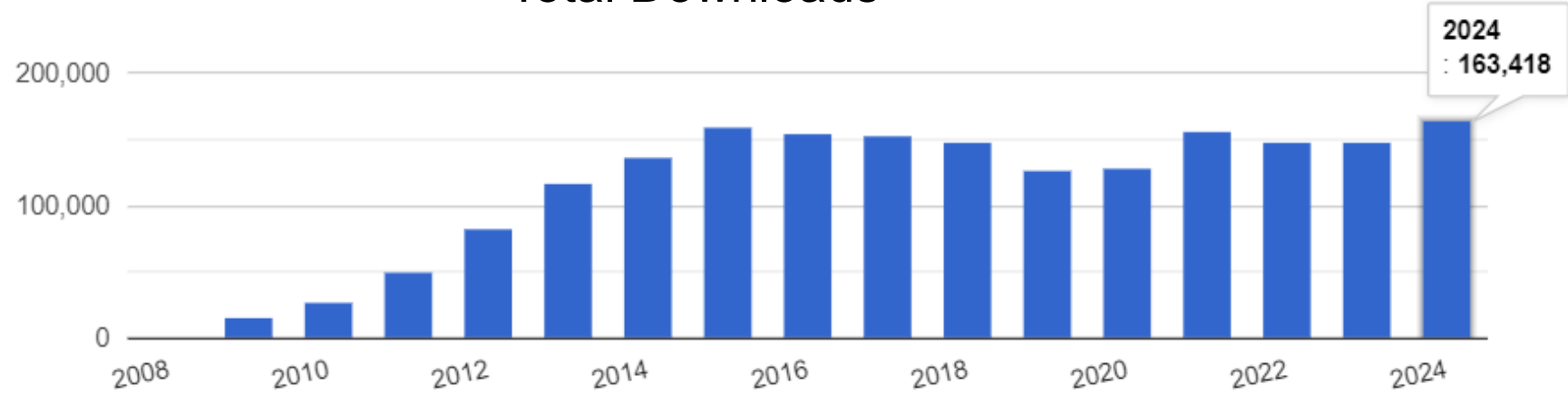


**50%** Full text

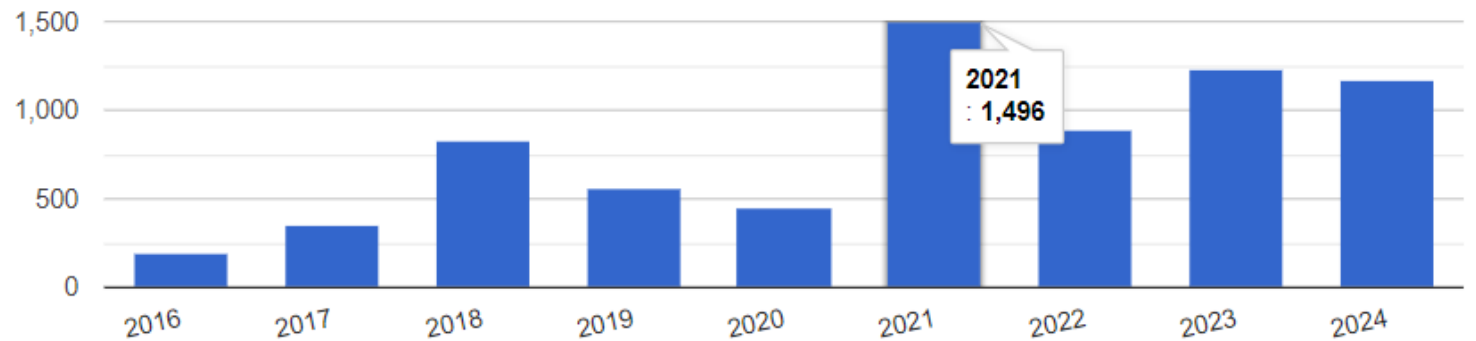


- Article
- Monograph
- Conference or Workshop Item
- Book Section
- Journal
- Book
- Thesis
- Dataset
- Other

## Total Downloads **1,918,977** Downloads



## Example of Author Download Metrics **7,189** Downloads



# Research Impact – SDGs (Scopus – work in progress)

8,823  
Documents ⓘ

2,268  
Authors

## Open access

<input type="checkbox"/> All open access	2,659
<input type="checkbox"/> Green	1,394
<input type="checkbox"/> Bronze	725
<input type="checkbox"/> Gold	599
<input type="checkbox"/> Hybrid gold	315

Industry, innovation  
and infrastructure  
Goal 9

[View 148 documents](#)

Climate action  
Goal 13

[View 215 documents](#)

Partnership for the  
goals  
Goal 17  
[View 532 documents](#)

Zero hunger  
Goal 2

[View 1,046 documents](#)

Clean water and  
sanitation  
Goal 6  
[View 241 documents](#)

Reduced  
inequalities  
Goal 10

[View 12 documents](#)

Life below water  
Goal 14

[View 356 documents](#)

Good health and  
well-being  
Goal 3  
[View 299 documents](#)

Affordable and clean  
energy  
Goal 7  
[View 118 documents](#)

Sustainable cities  
and communities  
Goal 11

[View 65 documents](#)

Life on land  
Goal 15

[View 543 documents](#)

# Impact examples

## Macadamia Information Kit. Agrilink, your growing guide to better farming guide

O'Hare, P., Quinlan, K., Stephenson, R., Vock, N., Drew, H., Ekman, J., Firth, D., Gallagher, E., O'Farrell, P., Rigden, P., Searle, C., Vimpany, I. and Waite, G. (2004) *Macadamia Information Kit. Agrilink, your growing guide to better farming guide*. Manual. Agrilink Series Q103052. Department of Primary Industries, Queensland Horticulture Institute. Brisbane, Queensland.

- 264k downloads from 261 countries with 9 Africa nations in top 20 (63,000)

## Integrated management of Fusarium wilt of bananas in the Philippines and Australia

Pattison, A. B., Limbaga, C., Gervacio, T., Notarte, A., Juruena, M., Dennis, P. G., Lindsay, S. J. and Molina, A. (2019) *Integrated management of Fusarium wilt of bananas in the Philippines and Australia*. Project Report. ACIAR.

- collaborations with research organisations – Aust. Centre for International Agricultural Research

## Impacts of pesticides and fertilisers on soil biota

Seymour, N. P. (2005) *Impacts of pesticides and fertilisers on soil biota*. In: Soil Biology – Soil Health Conference, Condamine Catchment Management Association Inc, 4th - 5th May 2005, RSL, Dalby.

- 2005 conference paper downloaded 14k

## Identification of insects, spiders and mites in vegetable crops. Workshop Manual, 2nd edition

Heisswolf, S., Kay, I. and Walsh, B. (2010) *Identification of insects, spiders and mites in vegetable crops. Workshop Manual, 2nd edition*. Manual. State of Queensland.

**27,715** Downloads



# Impact examples

## Bats: Important reservoir hosts of emerging viruses

Calisher, C.H., Childs, J.E., Field, H., Holmes, K.V. and Schountz, T. (2006) *Bats: Important reservoir hosts of emerging viruses*. *Clinical Microbiology Reviews*, 19 (3). pp. 531-545.

Focus on highly cited content

>66k downloads on publisher site, added fulltext to our repository in 2020



**Citations**  
Citation Indexes: **1133**  
Policy Citations: **13**



**Captures**  
Readers: **1744**



**Mentions**  
Blog Mentions: **3**  
News Mentions: **18**  
References: **13**



**Social Media**  
Shares, Likes & Comments: **518**

↓ DOWNLOADS

” CITATIONS



↓ 66,763

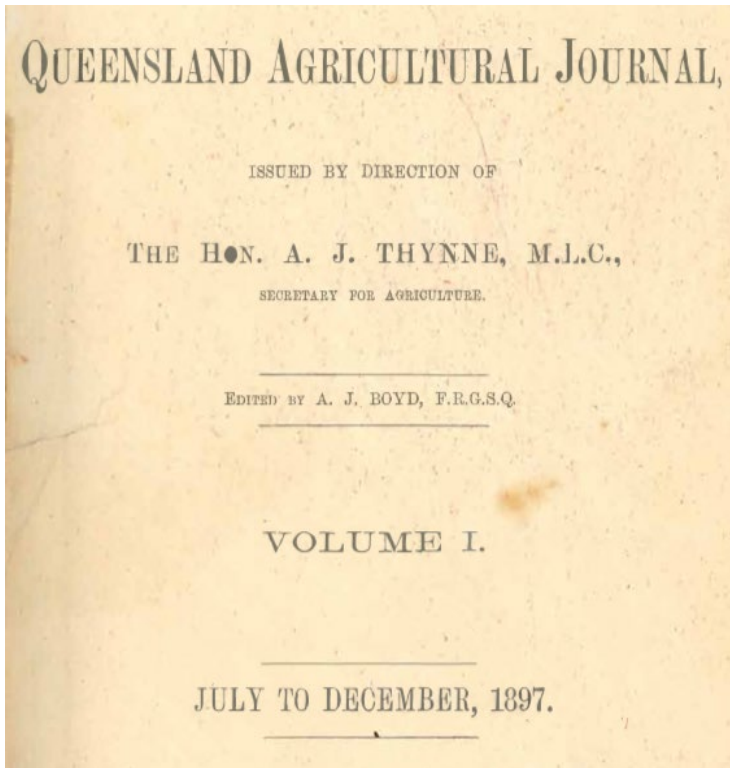
View Altmetrics



- Tweeted by 105
- Blogged by 6
- Picked up by 39 news outlets
- On 3 Facebook pages

37 readers on Mendeley  
eaders on CiteULike





- Increase digital content and target impact
  - prioritise digitising key content
  - digitise on demand and make it findable
  - archival content is relevant and important
    - Queensland Journal of Agricultural and Animal Sciences 1944 – 1988
    - Queensland Agricultural Journal 1897 – 1989 (digitised and ready)
- Use AI tools for contents pages, article level indexing, text recognition
- Improve subject hierarchy
- Total revamp of graphical display without loss of useability/search complexity
- Retrospective time series data to be digitised
- Fix author duplication for improved metrics to support early career scientists in building profiles
- More promotion with executives, authors and funders – “Show them the metrics!”

**We fully support CAUL’s statement “Australia needs a multi-faceted open access strategy” and its response to recent “Advice on open access models.**



## Challenges

- Budget – software costs, staffing costs
- Changes of government
- Changes in parent organisation's strategy and policies
- Insecure funding
- Publisher negotiations (large and small)
- IT issues, security, upgrades
  - Duplicate content is OK, have multiple backups
  - Persist in finding for efficient solutions and better IT
  - Consider external hosting, it has worked brilliantly for us!
- Succession planning
  - Mentor, PD opportunities
  - Support creativity, innovation, flexible work arrangements
  - Provide org structure with opportunities for promotion

## Acknowledgments

**My team, all those who have worked on the repository since 2001, ePrints staff in the UK, our authors and executive, CAUL, ALIA and Queensland Government.**

# Take home messages

- Libraries are publishers. High value content can be easily packaged and made accessible.
- Keep up with Open Access developments
- CAUL are leaders in this field. We totally support their Open Access advocacy and strategies
- Don't discount Open-source software. ePrints has been great and budget friendly!
- Starting small is OK, site appearance is not paramount as long as it works
  - interoperability, output and sharing options AND ADVANCED SEARCH!
- Consider 'Citizen Scientists'/volunteers to help add content
- Governments and funders change – broad nonpartisan engagement is key
- Your researchers are your advocates.
- Demonstrate value using irrefutable metrics
- Special and Government libraries and repositories act on UN SDG and Climate Change and are contributing to a cleaner, greener world with secure food supply chains and improved health outcomes. We are making a difference in social conditions in local and global communities.
- Advertise your social responsibility and environmental credentials to attract motivated, innovative early career librarians.