

# Scripted solutions to solving our bibliometric nightmare

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#### First there was RQF....



#### The University asked for citation counts

- All Supported Researchers for their whole career
- But each citation count is searched individually
- No mechanism to store the data for future requests

#### The Library wanted a software system

- Enabled aggregation of data from disparate sources
- Facilitated editing and data cleansing
- Able to export data for reuse

#### Why not use an existing system?

- arrow@UniSA in early development
- Research Master did not meet needs & outside of Library control



## Then our nightmare took form

# PHASE 1 initial data collection

- all librarians within the library involved
- data store not ready
- set citation count alerts (for later updating)

#### PHASE 2 ata entry of citation counts

- data store Citation+ deployed
- PHASE 2 pre-populated with Research Master references
- data entry of citation counts added citation counts to existing records
  - identified inaccurate references

# PHASE 3 data enrichment, cleanup and problem solving

- verify and correct references
- add standard numbers (ISSN, ISBN, DOI)
- add records where none exist
- flag problems for follow up (duplicate records)



# Our nightmare took form

314 researcher lists
73 references per list
22949 references in total
initial collection took 1670 hours

Citation+ statistics
23420 references
10056 verified by library

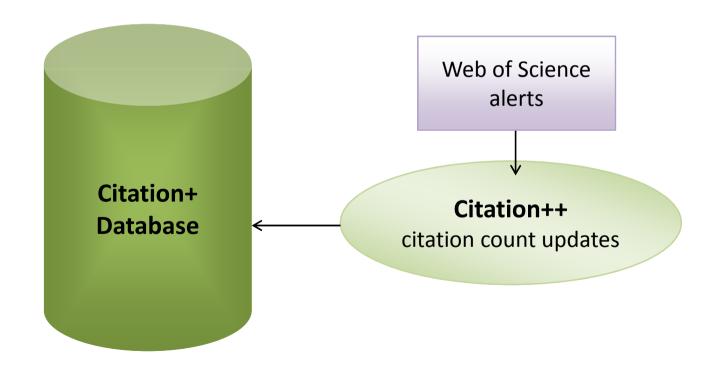
- 7964 (2008)
- 2092 (2009)

14% of records added by Library 27% of verified records added by Library

# Escaping the dream (at least for a little while...)

### Success!

Updating the citation counts using *Citation++* 

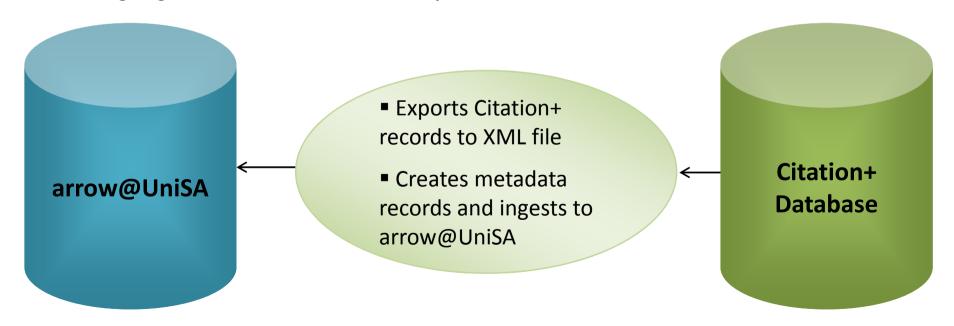


# Escaping the dream (at least for a little while...)

#### More success!

Populating our repository

- Metadata harvested from Citation+ for ingest into arrow@UniSA
- Tracking digitisation of 2007 HERDC publications





# Sharing the dream

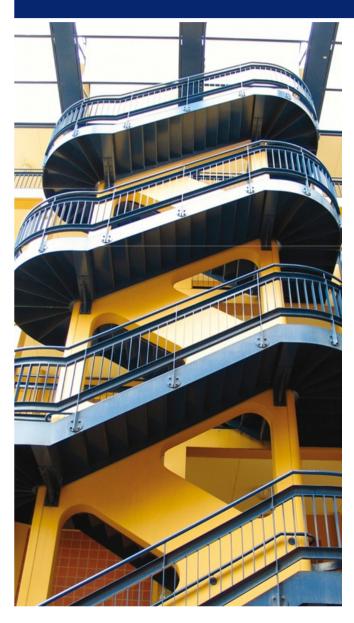


#### **Challenge 1 – Human factors**

- Communication
  - between the project team and the Library
  - between members of the project team
  - between the project team and Library management
- Resistance to the project
  - competing priorities
  - dislike of the work
- Improved working relationships
  - cross collaborative team
  - using core librarianship skills
  - Librarians build technical knowledge and skills
  - Developers increase their understanding of librarianship
- Interaction with management



# The ever changing nightmare



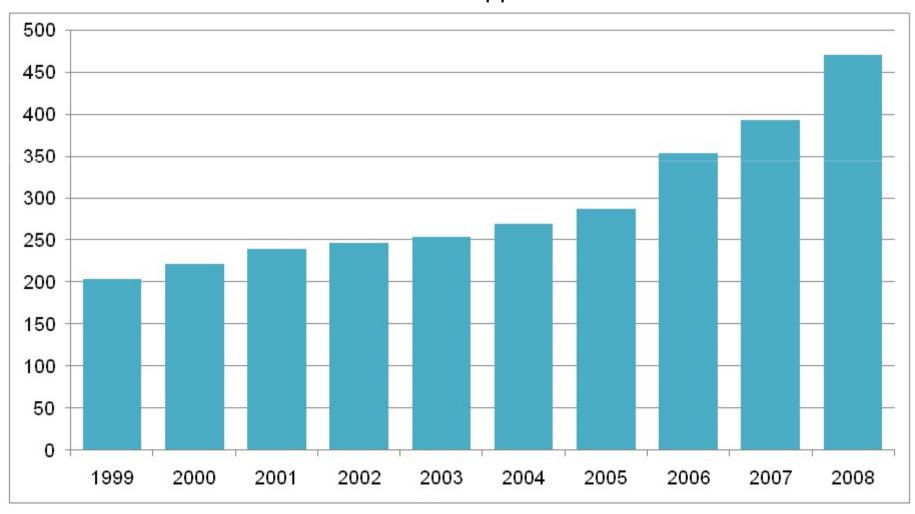
# **Challenge 2 – Moving goalposts**

Ever changing priorities, questions and parameters

- Changing Federal environment when RQF became ERA
- Evolving repository community and systems
- Conflict between what we want arrow@UniSA to be and what we are being asked for right now
- Continuously changing list and numbers of UniSA Supported Researcher

# The ever changing nightmare

# Total number of UniSA Supported Researchers





# The ever changing nightmare

2008 only 134 researchers 2005, 2007 & 2008 9 researchers

2005 & 2007 7 researchers 2009

2007 - 2008 72 researchers 2007 only 41 researchers 2006 & 2008 14 researchers 2005, 2006 & 2008 14 researchers

2006 - 2007 17 researchers 2006 - 2008 59 researchers 2006 only 32 researchers

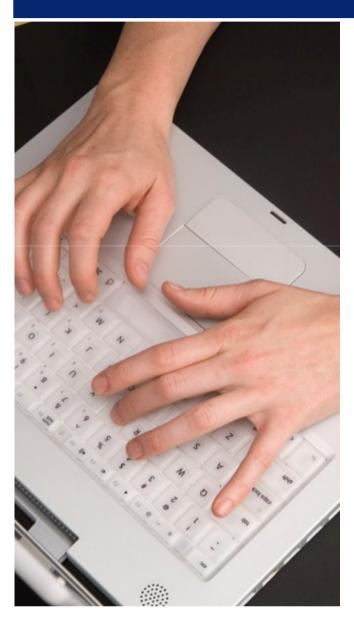
2005 & 2008 3 researchers

2005 - 2006 30 researchers 2005 - 2007 23 researchers 2005 - 2008 165 researchers

2005 only 36 researchers



# What a convoluted nightmare!



### Challenge 3 – Data quality control

#### **Author names**

- Establishing who wrote what
- Changing names
- Indexing under initials
- Variations in given names e.g. Elizabeth, Liz, or Beth
- Names that vary from forename or family name e.g. Megh Mallavarapu
- Transliterated names from non-Roman scripts

#### Bibliographic control

- Conferences confusing conference name and publication title
- Grey literature can lack details
- Details changing between submission and publication
- Papers submitted to more than one conference and/or published in more than one journals



# Future dreaming...



#### Much still to do...

#### Filling gaps

- New Supported Researchers
- Sourcing metadata as outputs are published

#### Making content available

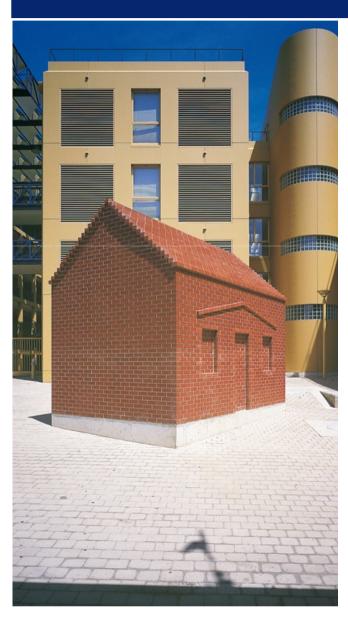
- Establishing copyright processes
- Sourcing full text (published, pre/post prints)
- Activating full text as permitted by copyright

### Management information reporting

- Corporate
- Government
- Local and individual



# And the saga continues...



The Library has strengthened and grown who would have thought...

we'd thrive on the horror!