A Combined Information Management System for the National Biological Collections

Simon Checksfield | Manager, Development and Integration

14 April 2015

Quick Background

Silo Centric

Product Focus

Back to Basics

Requirements Based Product Analysis

IRP and NRCA

The Response?

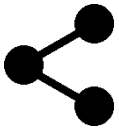
"CSIRO has a responsibility to protect, manage, and promote its priceless biological and non-biological Collections for current and future scientific research generations. Currently the 56 identified collections are managed inefficiently and disparately and consequently obstruct access to the collections data by the organisation, the research community and the public. We will implement improvements to collection management processes and systems to enable sustainable support and custodianship for the lifecycle of the important Collection assets that CSIRO curates."

- CSIRO Collection Management System Business Case 2015

Secure

Manage

Cost



Share

```
01001
10110
01101
```

Digitise

Open Source

Configurable

Extendable

Well Supported

Accessible

Process

Business Case ✓

Pilot
(May – Dec 2015)

Pilot Evaluation
(Jan 2016)

Roll Out
(Jan 2016 – May 2017)

What are we hoping to Achieve?

Outputs

Single Platform CMS

Integrated CMS:

- DAP
- ALA
- Vocab/Taxonomy Services
- Other Systems

Appropriate Changes to Business Processes

'Cleansed' Data

Outcomes

Decreased Effort to:

- Discover and Access Data
- Maintain and Support CMS

Increases to:

- Data Compliance
- Efficiency in BAU
- Capability to Record/Manage Objects
- Report Within and Across Collections
- Staff to focus on core capabilities

The Broader Information Framework.

Well Know

Proven

Established Links

“Visualiser”

The Glue

Integration

Partnership

Community

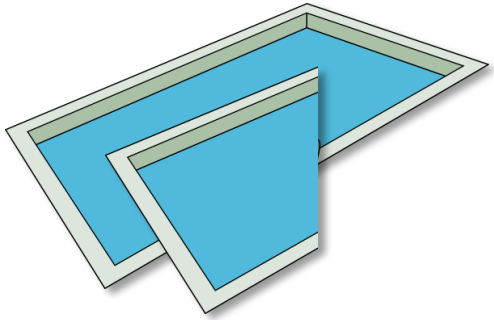
https://data.csiro.au/

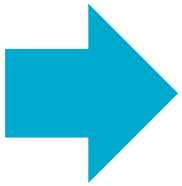
Accessible

Scalable

Robust

DAP and the Collections





1 Image File

3 Litres of Water

c.300 MB

1.2 mil Sheets

1.44 Olympic Pools

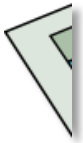
c.360 TB

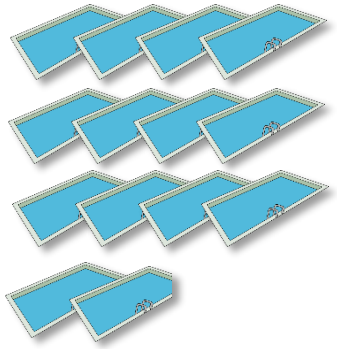
Herbarium Imaging

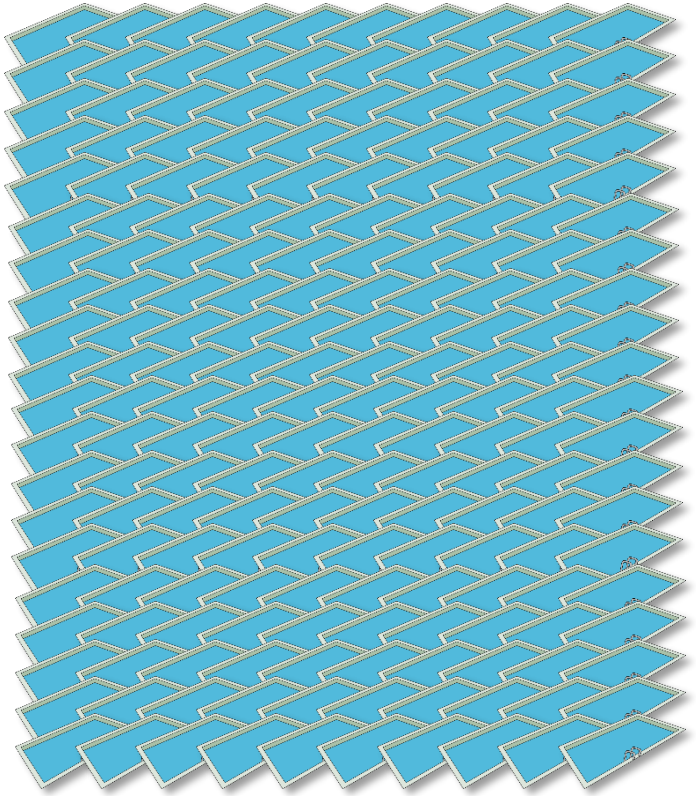
All Collections and Types

DAP and ASKAP

Where Can we get to







Daily Processing

0.07 Olympic Pools

16 TB (based on ASKAP)

DAP Storage

13.8 Olympic Pools

3.4 PB (based on ASKAP)

ASKAP Storage

200 Olympic Pools

50 PB + 50 PB growth pa

Where Next?

IM&T Partnership

Resources and Capability

Development and Improvement

Collaboration

Thank you

IM&T - Applications
Simon CHECKSFIELD
Manager Development & Integration

t +61 4 777 600 49
e simon.checksfield@csiro.au
w www.csiro.au