A Combined Information Management System for the National Biological Collections

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Quick Background

Silo Centric
Product Focus
Back to Basics
Requirements Based Product Analysis
IRP and NRCA
“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
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?

**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

**Outputs**
Single Platform CMS

Integrated CMS:
- DAP
- ALA
- Vocab/Taxonomy Services
- Other Systems

Appropriate Changes to Business Processes

‘Cleansed’ Data
The Broader Information Framework.
Well Known
Proven
Established Links
“Visualiser”
The Glue
Integration
Partnership
Community
Data Access Portal

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
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