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2 Executive Summary

The funding provided under this contract made a tangible addition to the level of dialogue about data issues between EU and AU data practitioners, infrastructure funders and discipline experts. In addition, the opportunity to meet and discuss data infrastructure challenges contributed to the momentum behind the Research Data Alliance.

3 Introduction

This report covers the use of Commonwealth funding by ANDS to support attendance at the Second European Union-Australia Workshop on Research Infrastructure, held in Brussels on June 26 and 27 (as well as follow-on activities). Some of these follow-on activities were extensions to what was originally agreed in the contract. This extension of the contract scope was done with the assent of the Department.
4 Outcomes & Achievements

Data Plenary session at 2nd EU-AU Workshop

On the 26-27 June 2012, ANDS convened a data plenary session at the Second European Union-Australia Workshop on Research Infrastructure. The Workshop session drew on the experience of Australian and European experts to consider best practice operation for productive, high quality research outcomes, sharing knowledge and experience for mutual benefit.

The session identified a number of actions that will be required to support Australian and European research into the future (in particular in the area of data interoperability), focusing on key research areas of mutual interest to Australia and the EU, as well as a number of data issues during the various thematic sessions.

Health
• the scope for bio-information sharing that exploits existing programs and enhanced collaboration between EBI and BPA

Environment/ Climate Change
• the important potential for the ODIP-IMOS partnership
• the need for data quality management
• opportunities for rich context description including the description of sensors and computer models for preservation and use by others

Energy
• issues associated with data integration and privacy management in a smart energy grid data

There was agreement from all themes that data volume, velocity and variety were all continuing to increase rapidly, exacerbating current data issues.

Presenters also introduced discussion on how data might be made more interoperable through what was then called the Data Web Forum (DWF), and which came into existence as the Research Data Alliance.

Workshop outcomes
• Continued exploration of options for closer collaboration between European Data Infrastructure (EUDAT) and ANDS
• Proposed joint EU and Australian participation in the DWF at both government and practitioner level
Follow-on Workshops on Linguistics Data Interoperability

The attendance at the Second European Union-Australia Workshop on Research Infrastructure provided an opportunity to identify cross-disciplinary data issues, and consider together with European colleagues how best to tackle these in an international context.

The follow-on Linguistics Data Interoperability workshop enabled much more detailed identification of issues that can be addressed, as well as planning for specific combined activities. The ability to spend a whole day in the same location enabled much higher-quality interaction and led to a much faster convergence on consensus about what could be done.

The results of the follow-on activities were intended to make a significant contribution to research infrastructure in the linguistics domain, as well as serve as a pilot for what the RDA Working Groups (DWF-WGs) would make possible.

A further two workshops were undertaken to continue momentum on this issue. The first of these took place in conjunction with the 9th International Conference On Oceanic Linguistics – COOL9 in Newcastle in Feb 2013. The second took place in Sydney on April 23 and 24 and focused on Data category standards in language technology research infrastructure. This workshop was hosted by the Australian Reference Group for Interoperability in Language Resources (users.monash.edu.au/~smusgrav/ARGILaRe/) and the University of Sydney Library.

Big and Complex Data Workshop, 2013

By negotiation with the Department, it was agreed that ANDS would use the remaining monies from this grant in support of a further follow-on activity arising from the 2nd Joint EU-AU Workshop. This was a Big and Complex Data Workshop, held on November 7, 2013 in Melbourne (immediately after the 3rd EU-AU Workshop on Research Infrastructure held on November 4-6 in Canberra).

The purpose of this workshop was to develop and strengthen European – Australian partnerships around research data to build on the opportunities that are made possible by new collections of internationally significant large and complex data. This workshop also situated this activity within the context of the Research Data Alliance, which is a community driven initiative to enhance global interoperability of data infrastructures.
5 Project Contributions to International Cooperation

The project activities have contributed to the objective of enhancing international cooperation in the development, operation and use of research infrastructure most specifically in the data arena. This has occurred in three ways:

- the creation of the Research Data Alliance
- the RDA Working Group on Data Categories and Codes
- discussions between EU and AU data practitioners and discipline experts about their shared data and data infrastructure challenges

6 Publications & Presentations

There was a paper and an associated presentation on the language categories and codes activity at the 2013 PARADISEC RRR Conference.
7 Level of Australian Participation

Data Plenary Session: The same number of Australian participants as attended the 2nd EU-AU Workshop itself (as the data plenary session ran as a combined session for the event)

Follow-on Workshops on Linguistics Data Interoperability: $5 + 30 + 10$

Big and Complex Data Workshop: 34

8 Level of International Participation

Data Plenary Session: The same number of International participants as attended the 2nd EU-AU Workshop itself (as the data plenary session ran as a combined session for the event)

Follow-on Workshop on Linguistics Data Interoperability: $4 + 2 + 1$

Big and Complex Data Workshop: 14
9 Organisational Participation

Data Plenary Session: The same organisations as attended the 2nd EU-AU Workshop itself (as the data plenary session ran as a combined session for the event)

Follow-on Workshops on Linguistics Data Interoperability:

- Australia
  - ANDS
  - PARADISEC
  - ANU
  - Monash
  - Melbourne
  - Monash
  - <others not recorded>

- EU
  - CLARIN

Big and Complex Data Workshop:

- Australia
  - CSIRO
  - ANDS
  - NCI
  - Pawsey
  - AURIN
  - ABS
  - NICTA
  - Geoscience Australia
  - Bioplatforms Australia
  - eResearch Coordination project
  - RMIT University
  - Dept of Industry
  - iVEC
  - Dept of Education
  - RDSI
  - NeCTAR
  - VeRSI
  - Monash University
  - VLSCI

- EU
  - Euro-BioImaging
  - Otto-von-Guericke University
  - PRACE
  - INSPIRE
  - Swedish National Data Service
  - THE ISSUE UK
  - European Clinical Research Infrastructure Network (ECRIN)
  - EMBL, EIROforum
  - Plataforma Solar de Almería-CIEMAT
  - EC
  - EMBL
  - agINFRA project
10 Follow up Activities

Data Plenary Session

The Data Plenary Session arguably contributed to the momentum behind the formation of the Research Data Alliance. Despite only being formally in existence for one year, over 500 people attended the Third Plenary of the RDA in Dublin in March 2014.

Follow-on Workshops on Linguistics Data Interoperability

The most tangible result of these workshops is the Research Data Alliance Working Group on Standardisation of Data Categories and Codes.

Big and Complex Data Workshop

This meeting identified a number of potential follow up activities.

Data Interoperability

- Collaborate on the kinds of provenance information needed to support innovative uses/reuses of the data. This goes beyond the more usual uses of provenance to support either preservation of the data, or reproducibility of the processes that led to the data collection. This could be taken forward through the existing Research Data Alliance Interest Group on Research Data Provenance.

- Develop an abstraction layer to simplify data interoperability across different discipline and problem domains. This could be taken forward through the existing Research Data Alliance Working Group on Data Foundation and Terminology.

Big Data (defined at the workshop as data that is too large to be easily moved)

- A joint action proposed by the HPC facilities to discuss trusted data services that facilitate needs from many research communities – climate, health, urban, for example. This could be taken forward through existing discussions between the operators of HPC facilities in AU and EU.

Data Services

- Increased joint international meetings bringing together the HPC and data communities. This would serve to share good practice and also identify what services could/should be provided.
## 11 Completed Milestones

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Completed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Progress report, including a draft proposal for the 2 hour data workshop session on 27 June, and draft proposal for the one day data workshop on 28 June 2012 in Brussels.</td>
<td>Yes</td>
</tr>
<tr>
<td>2. Organise and hold a data thematic session at the 2nd Joint Workshop for Research Infrastructure with European counterparts.</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Organise and hold a one day data/e-infrastructure workshop with Australian and European participants.</td>
<td>Yes</td>
</tr>
<tr>
<td>4. Follow up report on outcomes from the workshop session and provision of draft proposal for follow up activities</td>
<td>Yes</td>
</tr>
<tr>
<td>5. Progress report on follow up activities</td>
<td>Yes</td>
</tr>
<tr>
<td>6. Final Report on outcomes from follow up activities</td>
<td>This document</td>
</tr>
</tbody>
</table>
### Australian National Data Service Project

**Joint Australian - European Union Workshop on Research Infrastructure**

**Statement of Income and Expenditure**

for the period from 21 May 2012 to 31 March 2014

<table>
<thead>
<tr>
<th>Item</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td></td>
</tr>
<tr>
<td>Grant</td>
<td>45,000</td>
</tr>
<tr>
<td>Interest</td>
<td>1,341</td>
</tr>
<tr>
<td>Other Income</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Income (a)</strong></td>
<td>46,341</td>
</tr>
<tr>
<td>Expenses</td>
<td></td>
</tr>
<tr>
<td>Non-Salary</td>
<td>46,341</td>
</tr>
<tr>
<td><strong>Total Expenses (b)</strong></td>
<td>46,341</td>
</tr>
</tbody>
</table>

| Surplus/(Deficit) for the reporting period (a - b) | -     |
| Brought forward surplus/(deficit) from 21 May 2012 (c) | -     |
| Balance Carried Forward to next Reporting Period (a - b) + (c) | -     |

We, Ian Smith and Joel Chibert, hereby confirm the following:

(i) The detailed statement of income and expenditure for the ANDS Establishment Project (shown above) represents a correct view of the financial performance for the period ended 31 March 2014.

(ii) The Funding was expended for the Project and was used in accordance with the agreement with the Department of Innovation, Industry, Science, Research and Tertiary Education.

**PROFESSOR IAN SMITH**
Vice Provost (Research and Research Infrastructure)
Office of the Provost and Senior Vice-President, Monash University
Date: ______________________

**MR JOEL CHIBERT**
Director of Research and Revenue Accounting Services
Office of the Chief Financial Officer and Senior Vice-President, Monash University
# Australian National Data Service Project - JRW Funding

## Statement of Income and Expenditure for the Period Ended 31 March 2014

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>Appendix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant</td>
<td>45,000</td>
<td>A</td>
</tr>
<tr>
<td>Interest</td>
<td>1,341</td>
<td>A</td>
</tr>
<tr>
<td>Other Income</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td><strong>Total Income (a)</strong></td>
<td>46,341</td>
<td></td>
</tr>
<tr>
<td>Expenses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries</td>
<td>-</td>
<td>B</td>
</tr>
<tr>
<td>Non-Salary</td>
<td>46,341</td>
<td>B</td>
</tr>
<tr>
<td><strong>Total Expenses (b)</strong></td>
<td>46,341</td>
<td></td>
</tr>
</tbody>
</table>

| Surplus/(Deficit) for the reporting period (a - b) | - |
| Brought forward surplus/(deficit) from 30 June 2012 (c) | - |
| Balance Carried Forward to next Reporting Period (a - b) + (c) | - |

We, Ian Smith and Joel Chibert, hereby confirm the following:

(i) The detailed statement of income and expenditure for the ANDS Establishment Project (shown above) represents a correct view of the financial performance for the period ended 31 March 2014.

(ii) The Funding was expended for the Project and was used in accordance with the agreement with the Department of Innovation, Industry, Science, Research and Tertiary Education.

---

**PROFESSOR IAN SMITH**

Vice Provost (Research and Research Infrastructure)
Office of the Provost and Senior Vice-President, Monash University
Date: [Signature]

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**MR JOEL CHIBERT**

Director of Research and Revenue Accounting Services
Office of the Chief Financial Officer and Senior Vice-President, Monash University
Appendix A
Schedule of Income for the Period Ended 31 March 2014

As per SAP extracts attached to Appendix A, the breakdown of income is as follows:

<table>
<thead>
<tr>
<th>Grant Income</th>
<th>Actual $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000/GNR Grant Income</td>
<td>45,000</td>
</tr>
<tr>
<td>Total Grant Income</td>
<td>45,000</td>
</tr>
<tr>
<td>Less 2012 Adjustments</td>
<td></td>
</tr>
</tbody>
</table>

Adjusted Grant Total: 45,000

<table>
<thead>
<tr>
<th>Interest Income</th>
<th>Actual $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000/IVI Interest Income</td>
<td>1,341</td>
</tr>
<tr>
<td>Total Interest Income</td>
<td>1,341</td>
</tr>
<tr>
<td>Less 2012/13 Adjustments</td>
<td></td>
</tr>
</tbody>
</table>

Plus 2013/14 Adjustments

Adjusted Interest Total: 1,341

<table>
<thead>
<tr>
<th>Other Income</th>
<th>Actual $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000/OCI Commercial Activities</td>
<td></td>
</tr>
<tr>
<td>1000/OTH Income - Staff Contribution</td>
<td></td>
</tr>
<tr>
<td>Total Other Income</td>
<td></td>
</tr>
<tr>
<td>Less 2012/13 Adjustments</td>
<td></td>
</tr>
</tbody>
</table>

Adjusted Other Income Total: 

Notes

1. Amounts extracted from the financial system, SAP, are attached under Appendix A and labelled ‘SAP JWR Funds Extract 1st November 2012 to 31st March 2014’.
Appendix B
Schedule of Expenditure for the Period Ended 31 March 2014

As per SAP extracts attached to Appendix B, the breakdown of operating expenditure is as follows:

<table>
<thead>
<tr>
<th>Operating Expenditure Item</th>
<th>Actual $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000/NSAL   Other Operating</td>
<td>1</td>
</tr>
<tr>
<td>1000/TRV    Travel &amp; Related</td>
<td>1</td>
</tr>
<tr>
<td>1000/SRE    Staff Related</td>
<td>1</td>
</tr>
<tr>
<td>1000/PAS    Print Station &amp; Med</td>
<td>1</td>
</tr>
<tr>
<td>1000/OEX    Other Expenses</td>
<td>1</td>
</tr>
<tr>
<td>1000/MVE    Motor Vehicle Related Expenses</td>
<td>1</td>
</tr>
<tr>
<td>1000/LAB    Lab &amp; Operating Exp</td>
<td>1</td>
</tr>
<tr>
<td>1000/GPMT   Grants and Donations Payments</td>
<td>1</td>
</tr>
<tr>
<td>1000/ITE    Computer Related Expenses</td>
<td>1</td>
</tr>
<tr>
<td>1000/FIN    Financial &amp; Administration Services</td>
<td>1</td>
</tr>
<tr>
<td>1000/EQU    Equipment Related</td>
<td>1</td>
</tr>
<tr>
<td>1000/CRE    Communications</td>
<td>1</td>
</tr>
<tr>
<td>1000/BPR    Building &amp; Property</td>
<td>1</td>
</tr>
<tr>
<td>1000/CAPEXP Capital Expenditure</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Operating Expenditure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Less 2012/13 Adjustments</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Plus 2013/14 Adjustments</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Adjusted Operating Expenditure Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

Notes
1. Amounts extracted from the financial system, SAP, are attached under Appendix A and labelled "SAP JWR Funds Extract 1st November 2012 to 31st March 2014"
Appendix C

Brought forward surplus/(deficit) from 30 April 2012

This amount was taken from the previous year's statement of income and expenditure report from SAP.

End of Appendix C.