final report

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Prepared by: Marco Fahmi
                    Queensland University of Technology

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RELRP Database build and maintenance

Abstract
A database facility will collate data concerning methane emissions from ruminant livestock from current R&D outputs from RELRP. This facility will cope with multiple streams and types of data.

Project objectives
Develop a database, based on project B.CCH.1048 – Scoping Study that integrates the historic database (project B.CCH.1047) with new RELRP data. The database will also align with projects B.CCH.1043 and B.CCH.1046.

Success in achieving milestone
Hardware and system administration:
- A production server was set up to host the RELRP database.
- A test server was set up to test the functionality of the RELRP database before public release.
- Domain name relpr.org.au was purchased and pointed to the RELRP database location
- Automatic back-up and failure notification systems were installed on the server
- Installed Google Analytics to track usage

RELRP portal:
- A web server was installed to install web pages and the research data repository
- Mock-up web pages were designed to illustrate the layout of the RELRP portal
- Create a web form that allows researchers to contact the RELRP portal administrator
- A relational database management system was installed to store research data and user information
- An LDAP server was installed to store user accounts
- An LDAP web interface was manage user accounts
- A research data repository application (Metacat) was installed to manage and serve research data
- Upgraded the layout of Metacat to match the look of the MLA website
- Upgraded the mapping services of Metacat to use Google maps

- Enabled OAI-PMH functionality to allow machine-to-machine access to the records
- Various critical upgrades of Metacat to allow proper operation

User engagement:
- Created a custom version of the data upload application (Morpho)
- Created a custom manual for uploading data to the RELRP repository using Morpho
- Developed engagement plan with researchers based on their project and geographic location
- Sent a form letter to researchers inviting them to get in touch with the data librarians

Overall progress of the project
The project is on track to be delivered on time.

Recommendations
Most of the technical installation of the project has been delivered. We expect this part of the project to be delivered within the proposed schedule.

The portal will be officially launched on the production server once permission from MLA is obtained.

Some, but not all, researchers have contacted the data librarians. We recommend that we directly engage with researchers to organise training sessions and site visits.

Appendices
The development version of the RELRP database can be found at:
http://dev.relrp.org.au/