

# ABOUT INTERSECT

Intersect is owned by its members and was created to provide eResearch services and solutions. Intersect was established in late 2008 and currently has eight university members: the University of Sydney, University of NSW, Macquarie University, the University of Technology, Sydney, the University of Newcastle, Southern Cross University, the University of New England and the University of Wollongong. The NSW Government's Office for Scientific and Medical Research funded Intersect's establishment with a \$2.8M grant.

Intersect provides support for the State's leading researchers. Intersect also works in the national context as the NSW member of the Australian Research Collaboration Service (ARCS), and collaborates with the Australian National Data Service (ANDS) and Australia's Academic and Research Network, (AARNet). Intersect is a member of the National Computational Infrastructure (NCI) and the Australian Access Federation (AAF).

## Intersect provides:

- **Services:** such as research analysis; project coordination; collaborative tools; high performance computing support; and infrastructure planning;
- **Engineering:** project management; professional software development; infrastructure;
- **Support:** grants facilitation; support for strategic planning; requirements gathering; surveys.

# INTERSECT MISSION

To work with NSW universities and others to increase the quality, efficiency and visibility of NSW based research through the provision of advanced and specialised ICT services and solutions, enabling:

- improved management of research data;
- new methods for collaboration;
- new research methodologies.

## What is eResearch?

The term 'eResearch' is used to refer to the application of advanced information and communication technologies to the practice of research. It aims to enhance existing research processes, making them more efficient and effective, and it enables new kinds of research processes.

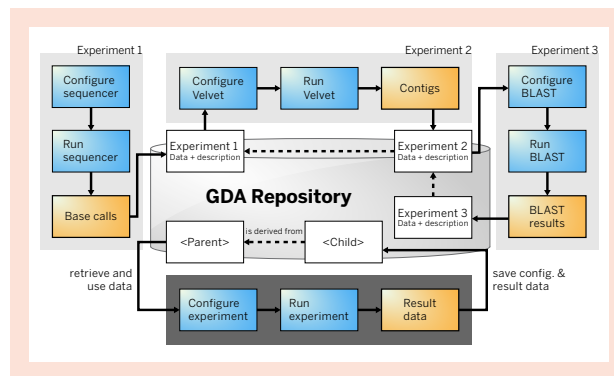
# INTERSECT PROJECTS

Intersect undertakes a range of projects across disciplines as part of our member services. These projects are available for all members to use, if you are interested in any of these, please contact us at [enquiries@intersect.org.au](mailto:enquiries@intersect.org.au). Among our projects are the following:

## Genomic Data Analysis

This project centralises the effort of several major institutions in the scoping and development work necessary to make effective use of gene sequencing instruments, as well as ensuring centralised computational and data storage facilities are used effectively in this research. The system offers the following key features: a repository for results and metadata based on Fedora Commons; full user and group management; access management for results; grouping of results into projects; the ability to confer result ownership; the ability to create derived results and to relate them to the original experiment; and export of results to the ANDS Australian Research Data Commons.

See <http://www.intersect.org.au/genomic-data-analysis> Available now.



## AMMRF: Platforms for Collaboration

The Australian Microscopy and Microanalysis Research Facility (AMMRF) is a national grid of equipment, instrumentation and expertise in microscopy and microanalysis that provides characterisation services to nanotechnology and biotechnology research. This project addresses data management needs for this data-intensive imaging community, providing tools to facilitate access, support data and metadata capture, data transfer between nodes and to federated data repositories.

See <http://www.intersect.org.au/ammrf-platforms-collaboration> Technique Finder available now, Data Transfer available late 2010.

## Breast Cancer Microscopy

To assist in the prevention and better treatments for breast cancer patients, Intersect is developing a system for improved capture, management and discovery of microscope image files.

See <http://www.intersect.org.au/breast-cancer-microscopy> Available July 2010.

## Health News: accessing health clips

The Health News project will provide a more convenient method of accessing health and medical related video clips via the Internet.

See <http://www.intersect.org.au/health-news> Available June 2010.

## Entrée: serving DNA and Herbarium Data

This project will make the electronic records of Southern Cross University's DNA Bank and the herbaria at the University of New England and the University of Wollongong available to the Atlas of Living Australia (ALA) and the Australian Virtual Herbarium so their contents will be more widely discoverable.

See <http://www.intersect.org.au/entrée> Available August 2010.

## The Australian Schizophrenia Research Bank (ASRB)

The Intersect team has redeveloped the existing database, built a web interface and tools to enable authorised researchers to search, filter and browse the ASRB database, link metadata from the MRI images, download MRI, genetic and clinical information. The project was delivered in November 2009.

See <http://www.intersect.org.au/australian-schizophrenia-research-bank> Available now.

## caTissue Suite: for Australian users

Intersect has localised caTissue components, enabling institutions to tailor the display of content to suit Australian preferences. The caTissue has been deployed at UNSW's Lowy Biorepository.

See <http://www.intersect.org.au/catissue> Available now.

Intersect's project portfolio is constantly developing. For updates on Intersect projects please go to: <http://www.intersect.org.au/projects>.

What have we missed? If you have a problem, please contact us at [enquiries@intersect.org.au](mailto:enquiries@intersect.org.au)

# INTERSECT SERVICES

Intersect provides professionally developed and operated services, for its members and the wider research community. Services are targeted at enhancing the capability and capacity of institutions, disciplines and research groups.

Intersect works closely with member service providers such as university IT departments and libraries. Services are also delivered with support from the various national programs including ANDS, ARCS, NCI, AARNet and the AAF.

As a first port of call, contact your eResearch Analyst. They can help you directly, or point you in the right direction.

The **Services portfolio** covers three broad areas:

## Consultation and advice

- Researcher engagement
- Project planning
- Requirements analysis
- HPC advice and support

## Hosted Services

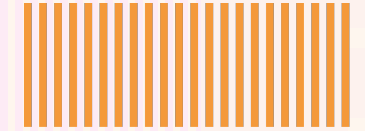
- Standard services
- Custom services
- Virtual machines
- HPC
- Data Storage and Management

## Professional services

- Project planning and management
- Skilled staff
- Software development
- User interface design

A brochure on the Services Portfolio is also available.

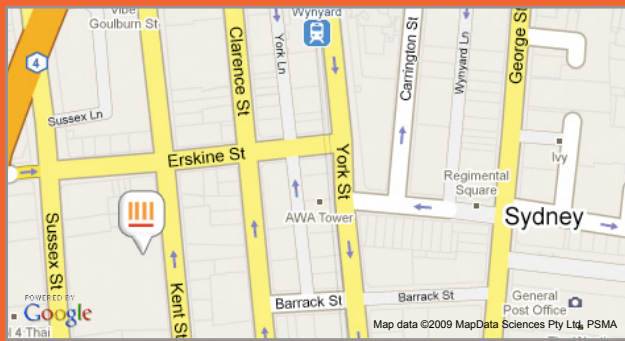
# INTERSECT MEMBERS



# INTERSECT



Find Us



**Intersect Australia Limited**  
[www.intersect.org.au](http://www.intersect.org.au)

Level 12, 309 Kent St  
Sydney NSW 2000

PO Box H58  
Australia Square  
Sydney NSW 1215

[enquiries@intersect.org.au](mailto:enquiries@intersect.org.au)  
T: +61 2 8079 2500



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