

## ARCS Mission

*“To provide long-term eResearch support including, but not limited to, authorisation, interoperability and collaboration infrastructure and services ...”*

Central goals include *improved and transparent access to:*

- Online real-time collaboration & collaboration workspaces
- Web applications & services
- Data Fabric: movement, federation & digital repositories
- Seamless resource sharing
- Authorisation expertise, exemplars, tools and services
- Virtual environments & collaborative compute resources
- Scientific instruments - remote access and operation

## ARCS Open for Business

- **Collaboration Services:** Videocollaboration (EVO, AG, Skype, iChat); Instant Messaging (Jabber); Web Workspaces (Sakai, Wiki, Drupal, Plone); Tools (Google Calendar, Google apps, etc); Helpdesk (telephone 1800 TOARCS all working hours & email [help@arcs.org.au](mailto:help@arcs.org.au)).

e.g., current Sakai use cases: DataMinx - Data Management for Microscopy, X-ray and Neutron Facilities; IPPN - International Pediatric Pulmonary Network; NCRIS Roadmap Review 2008; TERN - Terrestrial Ecosystem Research Network

- **Systems Services (including ARCS National Grid):** consistent standards based interface to HPC resources (Grisu - grid submission tool); manage ARCS National Grid and Certificate Authority (CA) for internationally recognised certificates; provides base infrastructure for all other ARCS services, data transfer, data hosting, etc.

## ARCS Open for Business



- **Data Services (including ARCS Data Fabric):** ARC Data Fabric federates national storage & open to all (uses SRB and Hermes); **Current use cases:** online access to Australian MODIS (NASA) Image Archive; data sharing for ANSTO; interstate data backups for Bluenet; storage targets for experimental data for Australian Synchrotron clients.
- **Authorisation Services (started July 08):** **Current Status:** Identity Providers (IdPs) deployed at each MARCS site *plus* generic IdP to host identities for anyone; temporary only, pending full deployment of AAF (including shared token); Short Lived Certificate Service (SLCS) is running; existing grid services (Grisu etc) now use Shibboleth; working with AAF to ensure researcher needs are being met. **Future:** beginning to develop *authorisation* tools, services, expertise and exemplars that will build on the AAF provided *authentication*.

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ARCS @ eResearch, Melbourne

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## Key ARCS Contacts



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