AeRO 2017 National Forum

University of Sydney Research Infrastructure and Data Science

Presented by
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ICT
If you change nothing, nothing will change.
We will also make transformational investments in our advanced computing infrastructure, ensuring we are well placed to support our initiatives in translational data science, the biomedical sciences, humanities and social sciences, among others, across the University. This will include a major expansion of our high-performance computing facilities (Artemis), as well as the creation of new Discovery Studios – dedicated studios that will enable powerful visualisation, segmentation and quantification analytics of complex data that is increasingly required in a multitude of disciplines throughout the University.
What we are working on now

Size/Complexity

- NextGen Research Data Store
- Imaging Data Service
- Artemis HPC Phase 3
- Virtual Desktops
- Institutional Repository
- Artemis HPC 40,000k SU

Inception  Procurement  Delivery  Operational

The University of Sydney
The Sydney Centre for Translational Data Science (SCTDS) will harness the extraordinary potential for innovation in data science and machine learning for the nation. It will be a partnership between data scientists, a broad range of research domain experts, and community and industry partners. The centre will deliver a world-class research capacity in data science to develop new methods, technologies and tools, and translate data science to drive new and transformational advances in the life, physical and social sciences, and tackle society’s complex problems.
Sydney Informatics Hub Core Research Facility

Data Engineers
Prof. Dietmar Muller
~30 active projects

Informatics Technicians
Prof. Geraint Lewis
1500+ users

Research Data Steward
A/ Prof. Gareth Denyer
7000+ users
1. What are you doing to understand your researchers' needs over the next 2-10 years?

2. What eResearch infrastructure do you plan to support, and where is that best placed?

3. How would you engage with any national (and international) framework(s) for research data?
Research Infrastructure Projects

- Research Infrastructure Grants
- Cross-Institutional networks

Project Governance
- Executive Sponsor: DVC-R
- Business Sponsor: Researcher
- Associate Director Research (Technology)
- Service Delivery Manager

IT related projects
- Non-IT related projects

Research Projects

Ideation & Partnerships
- Knowledge Sharing

Hybrid Theatre
- Sydney Imaging
- Sydney Informatics Hub

Researchers Advocating for researchers

Direct retail services
AND
Services provided through partners

Governance