

INTERNAL

Strength

- Library has existing relationships with IS and RO.
- Library has well developed structure and process for offering graduate student training/instruction.
- OSU has several large research centers (CGRB, LPI, CIMRS, HMSC, COMES, MMI, ONAMI, others) that incorporate faculty from many units. [ability to reach wide pool by strategic collaboration]
- OSU has several research partnerships with faculty at other universities and federal agencies (OrCOOS, OOI, ONAMI, PISCO-LTER, HJAEF-LTER, others).
- The Library currently offers some services and resources that can support e-science (data management consultation and training, some data storage capability via Scholars Archive)
- Library has a data management specialist in place who is charged with developing and providing data management services.

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Weakness

- Library needs to assume more a visible role as consultant for meeting federal grant agencies' data requirements.
- Library needs to attain better understanding of data generated in the social sciences (business, public policy) and humanities.
- Library needs to better define the parameters of its data management capabilities.
- Library needs to develop ways to assess the impact of services that support e-science.
- Library needs to expand its data management education program, including the current pilot project that is designing a credit-bearing course for graduate students.
- Library needs to expand the roles of liaison librarians with regard to promoting and facilitating faculty use of e-science services.
- Library needs to improve marketing and promotion of our services (illustrating that we are partners to faculty and academic units, not just servants)
- Library needs to promote RDM services and resources to faculty.
- OSU institutional repository can handle small data files; sharing and discoverability are not optimized. IR is optimized for documents, not data.
- OSU research computing needs and services are highly decentralized.

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- CDSS and its Data Management Specialist position are keys to developing additional support for e-science.
- Federal agencies provide >70% of total research funding at OSU, largely from agencies that require research data management plan/planning
- IS and RO are open to collaboration on strategies for e-science support.
- Library needs to educate faculty on the issues of data management, access, and related e-science issues.
- Library needs to further develop discovery tools to support e-science.
- Library needs to partner with other campus groups responsible for OSU's academic computing infrastructure to build research data storage and management solutions to support the long-term preservation and access of research data.
- Library needs to promote open data as related to the OSU land grant mission.
- Library wants to make the deposit of data associated with theses and dissertations into Scholars Archive an expectation for OSU graduate students.
- OSU has a robust, highly diverse faculty research community.
- OSU lacks traditional hierarchical constraints, so intra-campus collaborations occur at multiple levels. OSUL can reach out directly to stakeholders.
- OSU RO has role as liaison between campus stakeholders and Library/IS.
- RDM needs outside of major units vary widely.
- Smaller research units and individuals have needs for short and long-term data storage and sharing.

Opportunity

Threat

- Campus leadership in research (Research Office; RO) does not provide policies on data management or governance.
- Most of the well-funded, data-driven units on campus (Ag. Sci., CEOAS, Engineering, Forestry, & Science) have their own IT organizations.
- OSU faculty are largely unaware of the RDM support services offered by OSUL, and do not see OSUL as a campus leader in this area.
- OSU faculty are not currently engaged in rigorous RDM practices.
- OSU RO stresses need for faculty-generated and owned vision of RDM models and policies.
- Volume of data generated by some areas of research, e.g. oceanography and genomics, is growing faster than campus can afford to keep up with necessary 100Gbps connections to off-site research networks.

POSITIVE

NEGATIVE

EXTERNAL