

California Digital Library: Completed Objectives from 2010-2011*

A. Support the UC scholarly research and teaching life cycle.

- a. Provide life cycle support for the following priority formats:
 - *Electronic Theses and Dissertations (ETDs)*. A significant milestone was reached by this work that enabled the UC Libraries to both preserve and access UC students' electronic theses and dissertations.
 - Created and tested with a sample of 1,700 UCSD ETDs a template for access to ETDs submitted to the Merritt Repository Service (UC3). Access is provided using XTF-based interface. (Publishing)
 - Worked with campus stakeholders to ingest ETDs into Merritt. UCSF, UCI, UCSD, and UCM have deposited their ETDs in Merritt. (Publishing, UC3)
 - *eBooks* (licensed and mass digitized books). eBooks are an increasingly important format for our constituencies, and CDL has engaged in nationally recognized work that advance this arena.
 - Released "UC Libraries Academic e-Book Usage Survey" report on with a particular focus on Springer ebooks as part of the Springer ebook pilot assessment. (Collections)
 - Negotiated and implemented a major Wiley ebook license (Collections)
 - Completed contracts with Hewlett-Packard and the University of Michigan for print-on-demand services for mass-digitized content, and completed initial test load of 20,000 books into Amazon (via HP); logged first sales. (Collections)
 - *Electronic textbooks*.
 - Developed current awareness materials for Springer e-textbooks for faculty outreach purposes and incorporated evaluation of textbook use into Springer ebook assessment plan (Collections)
 - *Web published materials*.
 - End of Term Harvest: The goal of the End of Term Harvest is to preserve public U.S. Government web sites at the end of a current presidential administration when web sites are likely to be lost as a new administration takes over. This harvest is intended to document federal agencies' online archive during the transition of government and to enhance the existing collections. An archive of more than 3,300 websites was collected and built in collaboration with the Internet Archive, the Library of Congress, the University of North Texas and the Government Printing Office. Content is stored at the Internet Archive and CDL will host the public access gateway, which was built using CDL's eXtensible Text Framework (XTF). (UC3)
 - Web Archiving Service (WAS) is a CDL-created service to allow librarians and researchers to archive and retrieve archived websites. Curators can currently provide custom browse options for each archive; UC users will now be able to limit search results by those same curator-provided topics, as well as by date, file type and web site through the use of facets. (UC3)
 - *Research data supporting scholarly initiatives*.
 - Developed and refined Data Management guidelines working with campus partners. (UC3)
- b. Develop comprehensive digital curation services
 - Introduced Merritt, a curation and preservation service and made great strides in making it more secure and accessible. All content managed in Merritt is under active preservation management, with automatic storage replication and periodic fixity

verification. Developed and implemented new Merritt deposit methods: Content submission can be initiated manually through the Merritt UI or programmatically using a RESTful API. (UC3)

- Introduced EZID, a fee-based service that makes it simple for digital object producers, researchers and others, to obtain and manage long-term identifiers for their digital content. Developed a new EZID identifier co-ownership model, popular with institutions that sponsor accounts on behalf of researchers, the capacity to support a new schema, and administration tools to support additional clients. (UC3)
- EZID now supports the new DataCite application programming interface (API), making the service more stable and discoverable. DataCite is an international organization that aims to establish easier access to research data; increase acceptance of research data as legitimate contributions in the scholarly record; and support data archiving to permit results to be verified and re-purposed for future study. The CDL is a founding member of DataCite. (UC3)

c. Connect workflows

- Developed the Merritt Metadata Encoding and Transmission Standards (METS) feeder service that permits content contributors with existing METS-based DPR submission workflows to use those same workflows for Merritt deposit. (UC3)
- The Digital Special Collections program made progress in supporting campus workflows for archivists by adding 26 new DSC contributors and adding 15 new institution accounts to the CDL Archivists' Toolkit Hosting Service, releasing a contributor dashboard for centralized account administration, and implementing an option for OAC contributors to share their finding aids (collection descriptions) with OCLC's ArchiveGrid/WorldCat services (DSC)
- Migrated Archivists' Toolkit hosting service (an open source archival data management system to provide broad, integrated support for the management of archives) from a single hosted instance to multiple instances to provide customers with more robust support and functionality (DSC)
- Developed a formal assessment plan of campus workflows to determine the future of the UC Shared Images service, a collaborative, cross-campus program for building an aggregated image collection for classroom instruction. UC Shared Images enables campuses to leverage resources, become more efficient, and provide better access to the images faculty and students need most (DSC)
- Developed a workflow for creating site-level MARC cataloging records for the Web Archiving Service with curators at the University of Michigan. (UC3)
- Streamlined the VPN workflow within UC's OpenURL linking technology, UC-eLinks, to benefit the end user experience. (D2D)

d. Support collaborative public services.

- Completed final planning for implementation of the 24/7 QuestionPoint Qwidget that enables Melvyl users from all campuses to get immediate online reference assistance; installed July 2011. (Information Services)
- With a subgroup of the UC Heads of Public Services (HOPS), tested and assessed usage of a recommender tool for the UC libraries, bX Recommender. (Information Services, D2D, User Experience)

- Created and continue to maintain the new Melvyl website for keeping the UC campuses informed about this service (<http://www.cdlib.org/services/d2d/melvyl/>) (Information Services, D2D)
- e. Orient services toward the research and teaching life cycle and academic workflow.
 - By emphasizing publishing needs rather than infrastructure, integrated publishing services into the scholarly workflow for authors, thereby amplifying and reframing eScholarship services and content. (Publishing)
 - Launched an undergraduate repository pilot to highlight outstanding undergraduate research, working with UCLA, UCSD, and UCB. (Publishing)
- B. Expand worldwide researchers' access to UC's scholarship and digital resources whenever and wherever possible.**
 - a. Increase open access content
 - Expanded content in Digital Special collections by ingesting collections of 10 new California Local History Digital Resources Project (LHDRP) contributors. LHDRP is a multi-year statewide program begun in 2000 that provides a "solution in a box" for public, academic, and specialized libraries to select, scan, and catalog approximately 200 items for inclusion in the OAC and Calisphere and publication on local websites. Also ingested 2,353 new EAD collection guides into OAC and 14,595 digital objects into OAC/Calisphere. (DSC)
 - Developed 3 new themed collection topics for Calisphere for use by K-12 audiences and researchers using primary source collections. (DSC)
 - Implemented 'Local History Mapped' feature on OAC and Calisphere allowing end users to locate on a map where an image in the collection is found. (DSC)
 - Made 2,077 articles by UC authors available as open access through the 2-year UC-Springer Open Access pilot (pilot concluded in March 2011). (Collections)
 - Celebrated the 3 millionth Google UC mass digitized volume And Ingested ~1 million mass digitized volumes into the HathiTrust shared digital repository. Total volumes digitized as of June 2011: 3.5 million. Total UC volumes in HathiTrust as of June 2011: 2.6 million (Collections)
 - b. Develop a copyright/intellectual property approach
 - CDL was instrumental at the national level in developing model author rights language, endorsed by ARL, for inclusion in library content licenses. (Collections)
 - c. Reduce access barriers
 - Secured electronic Interlibrary Loan (ILL) rights for major contracts with AAAS, Elsevier and several other providers which makes content more accessible to UC students and scholars. (Collections)
 - Developed a mobile support policy for CDL licensed resources to broaden the accessibility of this content. (Collections and Information Services)
 - Launched the CDL mobile web site, January 2011. (UX Design)
 - Updated CDL Technical Requirements for Vendors, setting CDL's expectations for vendors of licensed resources. Updated sections on Shibboleth, remote access, accessibility/ADA compliance, and mobile computing. (Collections, D2D, and Information Services)
 - Worked with campuses to upgrade 67,000 MARC records for mass digitized books to include OCLC numbers, and uploaded over 700,000 MARC records lacking OCLC numbers into the HathiTrust catalog system to prepare for future ingest. (Collections)

- Facilitated campus access to HathiTrust via Shibboleth to support full downloading and access for users with print disabilities. (Collections)
- Developed search box widgets for HathiTrust content that can be embedded in a variety of user access points and services for easier searching of digitized books. (Collections)
- Developed a search box widget for OAC contributors to embed within local websites, to search their finding aids in OAC. (DSC)
- Developed an API for DSC services, using the Calisphere browse widget as an initial use case. (DSC)
- Added descriptive tags for all OAC static pages, Calisphere homepage, and selected themed collections, and implemented related tagging improvements to optimize for search engines to make content more accessible to users. (DSC)

C. Provide trusted and enduring access to California’s cultural and intellectual heritage.

- a.** Provide objective evidence of performance and reliability for CDL services
 - Implemented Google Analytics in Calisphere in late 2010, and OAC on July 1, 2011. (DSC)
 - Continued providing metrics for all D2D services; included new sections on tracking mobile usage. (D2D)
- b.** Establish service level agreements with the customers for CDL services
 - Established operational service level agreements for Request service. (D2D)
 - Revised the OAC and Calisphere privacy statements in October 2010. (DSC)
- c.** Increase internal capacity for performance and reliability
 - Infrastructure and Architecture Support (IAS) worked with the UC Library Technology Advisory Group (LTAG) and UC Trust to begin implementation of Shibboleth. (IAS)
- d.** Refreshed the CDL’s privacy policy and the disclosure of policy elements and responsibilities to contributors and end-users of CDL services. (IAS)

D. Advance digital library development.

- a.** Identify opportunities for applied research
 - Released the grant funded Social Networks and Archival Context prototype (SNAC). The purpose of the project is to test the feasibility of using existing archival descriptions in new ways, in order to enhance access and understanding of cultural resources in archives, libraries, and museums. (DSC)
 - Secured funding from the Gordon and Betty Moore Foundation and Microsoft Research to create an Excel add-in to promote data sharing and reuse. (UC3)
 - With funding from the Gordon and Betty Moore Foundation completed research and resulting white paper on data publication.(UC3)
- b.** Foster partnerships between and among campus representatives to solve new problems
 - CDL representative appointed to UC Heads of Special Collections (HOSC) to integrate CDL more fully into this important area for us. (DSC)
- c.** Seek external partnerships and alliances to extend our capacity and expertise
 - Co-hosted CURATECamp, a series of unconference style events focused on connecting practitioners and technologists in digital curation. (UC3)
 - Chaired international Google partners’ quality working group for Mass Digitization. (Collections)

- Established a partnership role on the ArchivesSpace project, to alpha-test the forthcoming merging of two archival management tools, the Archivists' Toolkit and Archon application. (DSC)
- d. Increase communication channels for sharing outcomes of digital library development broadly.
 - Chaired HathiTrust Communications Working Group, developed outreach materials and conducted presentations to various groups; published articles and interviews on the history and development of the HathiTrust digital repository; Co-wrote a paper on ingest of Internet Archive content into HathiTrust for the international iPres conference and subsequent publication, describing challenges and lessons learned. (Collections)
 - Developed "Story of a Digital Book" video. (Collections)
 - Conducted ongoing program of webinars pertaining to DSC services. (DSC)
 - Conducted ongoing webinars for UC Resource Liaisons (Collections)
 - Partial list of CDL Presentations:
 - Licensing Approaches to Open Access, Ivy Anderson, ARL-ACRL Scholarly Communications webinar, July 2010
 - Mapping a digital collection Policy: Discovery and Access, Ellen Meltzer, American Association of Law Librarians, July 2010
 - [HathiTrust 101](#), Heather Christenson, Webinar for nationwide audience of research libraries, including UC participants, August 2010
 - The Google Books Settlement: A Partner Library Perspective, Ivy Anderson, Library Journal Virtual E-book Summit, September 2010
 - HathiTrust Update, UCSD, presentation to UCSD library staff, Heather Christenson, November 2010
 - Key Performance Indicators: Adapting an accountability tool for digital libraries, Digital Library Federation (DLF), Wolf and Zentall, November 2010
 - The Future of Collection Development: Collaborative Approaches, Ivy Anderson, Charleston Conference, November 2010
 - Organizing SCOAP3 in the U.S., Ivy Anderson, National Institute of Informatics, Japan, December 2010
 - Metrics-Based Journal Value Analysis, Chan Li, Electronic Resources & Libraries 2011 Annual Conference, Feb 28 – Mar 2, 2011
 - HathiTrust Webinar [New Partners Webinar - March-April 2011](#). ([Webinar recording](#)), Heather Christenson, for nationwide audience of research libraries, including UC participants, April 2011
 - Collaborative Approaches to Print Collections at the University of California Libraries, Ivy Anderson, CIC Center for Library Initiatives Annual Conference, May 2011
 - [Sharing a Federal Print Repository: Issues and Opportunities](#), Heather Christenson, FLICC (Federal Library and Information Center Committee), Presentation to leaders of the U.S. Federal Libraries (Library of Congress, Department of Justice May 2011
 - A tool for Data Management Plans, John Ober for UC3, at UC Systemwide Meeting of Contracts and Grants Officers, May 2011
 - Google Books in Libraries, Heather Christenson, Google staff at their annual sales meeting in San Francisco, June 2011
 - Toward Making Data Management Easy, Joan Starr, American Library Association, Science and Technology Section, Hot Topics Discussion Group, June 2011

E. Extend our efficiencies and effectiveness.

- a. Develop sustainable business models**
 - Developed and implemented a cost model for the EZID service and added 15 new customers including 4 UC campuses. (UC3)
 - Implemented the cost model for WAS. Customers now include 16 UC entities and 8 organizations external to UC. (UC3)
- b. Adopt a business development approach to proposals and negotiations.**
 - Implemented a campus discount program for nine major vendors to facilitate local purchasing, achieving cost savings, shareability, and campus flexibility. (Collections)
 - Reduced key licensed content expenditures by 15% through targeted reductions and cancellations in licensed journal packages and other resources; restructured a 'big deal' with Springer using CDL value metrics to achieve significant cost savings. (Collections)
 - Implemented incremental improvements to journal evaluation algorithm and provided extensive data to campuses to support campus decision-making. (Collections)
 - Analyzed costs, benefits, and efficiencies related to virtual machine architecture based on deployments to date and developed a migration plan to a more virtualized environment. (IAS)
- c. Participate in large scale resource sharing arrangements**
 - Secured major grant funding to launch the Western Regional Storage Trust (WEST) shared print journal archiving program among 80+ library partners in western U.S. (Collections)
 - Helped chart a national strategy for monographic collection management in light of emerging ebook trends by serving on the steering committee for an IMLS-funded workshop to develop a national framework for shared monographs. (Collections)
 - Furthered the work of HathiTrust via chairpersonship of major committees and related project work (Collections)
- d. Improve internal CDL efficiencies**
 - Revised process for staging electronic resources management system (ERMS) updates to improve procedures. (Collections)
 - Combined CDL Acquisitions and Shared Cataloging units into a new combined unit, Systemwide Collection Services. (Collections)
 - Updated mass digitization inventory database (MDID) to significantly improve performance and load times. (Collections)
 - Engaged 2 unpaid graduate student interns for Mass Digitization and Publishing projects. (Strategic & Project Planning)
 - Implemented daily publication cycle for EAD finding aids contributed to OAC, (DSC)
 - Consolidated server framework for OAC/Calisphere to streamline back-end processes (DSC)
- e. Contribute to systemwide efficiencies**
 - Participated in the SLASAC Task Force to examine systemwide investments in library services. (Executive and Strategic & Project Planning)
 - Developed policies for systemwide review to support shared print in place. (Collections)
 - Participated in Digital Library Services Task Force and Next Generation Technical Services initiatives. (DSC, UC3, IAS)

* The programs or services involved in a project are indicated in parentheses after each contribution.