

Purdue University PLM Center of Excellence

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Data Curation and the Product Lifecycle Management

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Perception of Libraries



At a Tipping Point: Education, Learning and Libraries

OCLC, 2014 <http://www.oclc.org/en-US/reports/tipping-point.html>

Data = Evidence

Data



Information



Presentation



Knowledge



EpicGraphic.com

Digital data, e.g.,

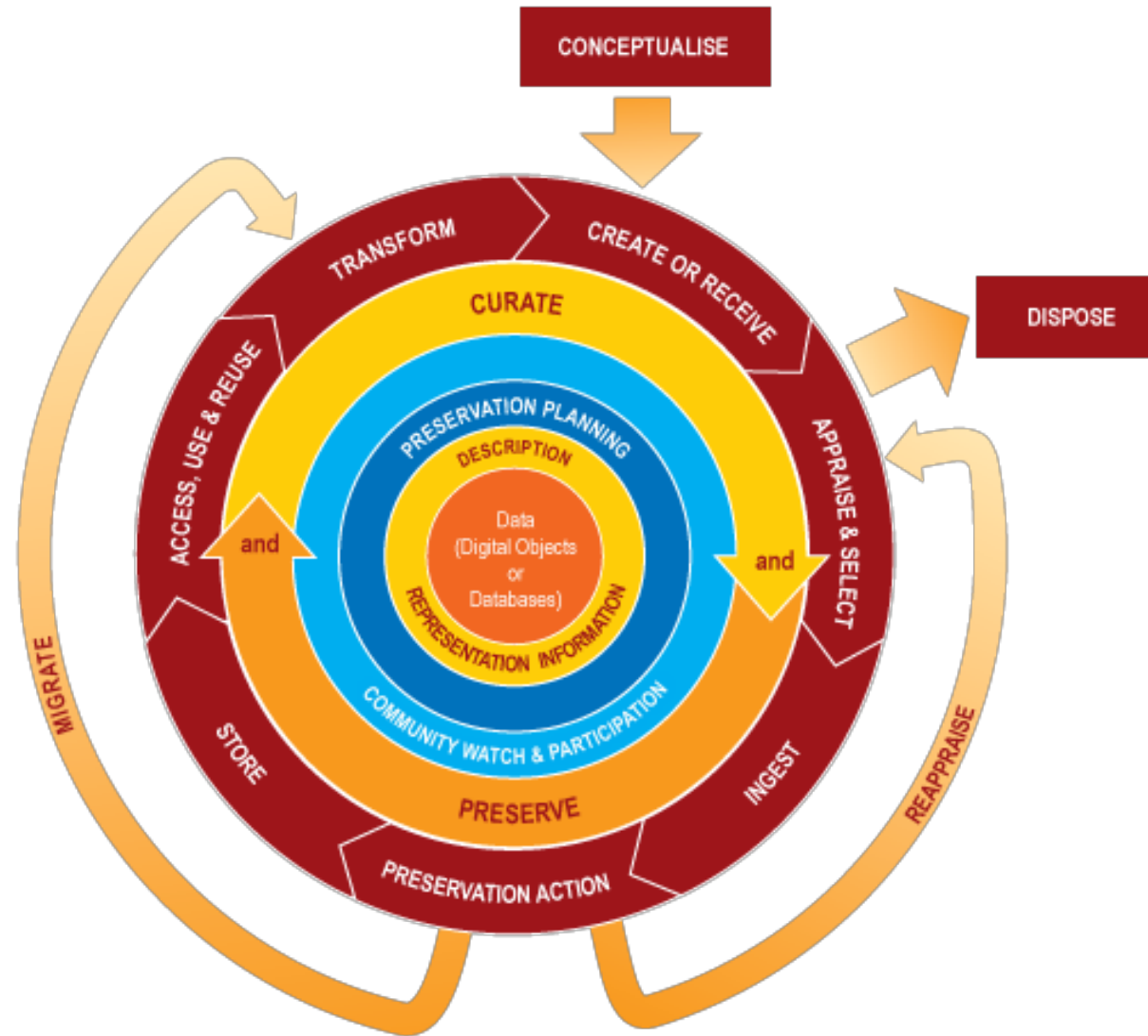
- Tables and spreadsheets
- Sensor and instrument output
- Source code and simulations
- Images, video, and audio
- Observation logs
- Workflows
- Interview transcripts
- Survey instruments and results
- Software input / output, etc.

Data repositories



Data Curation Profiles

- Interview instrument used to understand and outline research processes and *data curation needs* of researchers in different domains
- Includes an overview of the research, its purpose and audience, funding
- Follows specific example of a kind of data, its stages and corresponding workflows, format and scale, value for stewardship, and other context
- Other sections of the profile include intellectual property, data organization and documentation (metadata), access control, associated tools, interoperability, measuring impact, and data management and preservation



DCC Curation Lifecycle Model

<http://www.dcc.ac.uk/resources/curation-lifecycle-model>

Industry challenge: product data management

- The complexity of capturing, managing and future-proofing product data where requirements for supporting data may outlast the software environment that produced the data
- E.g., aerospace industry
- Compare research data lifecycle to the product lifecycle and myriad/emerging standards and practices from academic and research library community to industry
- Explore differences in approaches, identify gaps and overlap, begin to leverage best of breed for both

PLM Center fellowship activities

- One year (renewable for second year) – started last month
- Graduate assistantship & undergraduate internship/s
- Standards and literature review
- Meetings with industry partners
- Participate in LOTAR Working Group and meetings
- Select 2-3 partners to construct data curation profiles
- Map EN/NAS 9300 & LOTAR outputs from profiles to library and archival standards
- Identify and scope 1-2 gaps to address
- Final report to PLM Center & dissemination at relevant conferences

Thank you

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