

Partnerships and Challenges for Sustainable Research & Data Services

September 24, 2020 | CNI Webinar Series

Amy Koshoffer | Ted Baldwin

UC Libraries

About UC Libraries

City of Cincinnati

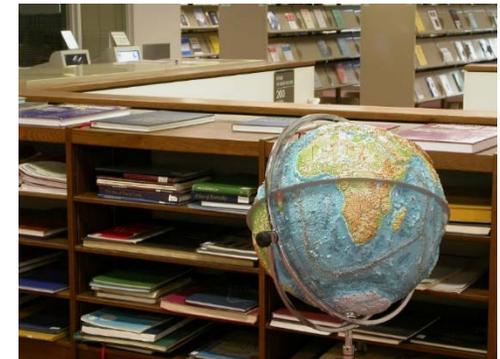
- Sits on the original homelands of the Osage, Shawnee, Miami, Adena and Hopewell tribes
- Incorporated in 1819, was a major stop on Underground Railroad, but also the site of several race riots
- Headquarters of several fortune 500 companies including Kroger and P&G

University of Cincinnati

- Urban, Public R1 institution founded in 1819
- FY 2019 total research funding \$205,675,301 | 949 Awards
- 47+ enrollment in Fall 2020, 11K employees (6.8K faculty)
- Founded co-operative education (co-op) (Hermann Schneider 1906 – CEAS)

UC Libraries – libraries.uc.edu

- ARL member
- Libraries - Uptown campus - 1 Main Library, 10 College & Department between the East and West campuses, Law Library, 2 Regional campuses
- At the uptown campus - 111 total Library staff with 28 Librarians

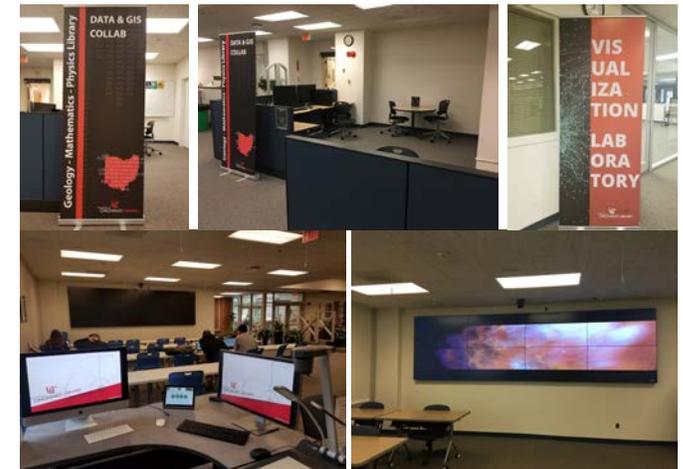


Assistant Director, Research & Data Services

- Pronouns she/her(s)
- Co-Lead RDS, based on UC's West Campus
- Associate Senior Librarian, Tenured faculty
- MLIS – Kent State distance learning program
- MS in Mathematics
- BS in Biology
- 17 years bench research experience
- Work includes
 - STEM focused
 - Data Literacy support
 - Data Management support
 - Data & GIS lab, Visualization Lab
 - Coordinate work of support students



Amy Koshoffer, Assist Dir Research & Data Services



About RDS

Research & Data Services

- Promote research efficiencies and research best practices
- Teach data literacy skills
- Provide customized support
- Engage other partners in developing the UC research infrastructure
- Raise awareness of policies, trends, and practices that impact the research environment

Research and Data Services

Team members

Tiffany Grant PhD
Co-lead RDS (HSL)
Biomedical informatics



Amy Koshoffer
MLIS, MS Co-Lead RDS
(GMP) Data Management



Rebecca Olson
MLIS (Langsam) Social Science
& Business Informationist



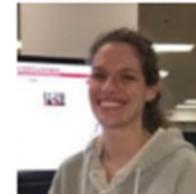
Don Jason
MLIS, MS (HSL)
Health Informationist



Dorcas Washington
MS (HSL) Data Analytics
Specialist



Jenny Latessa
MCP (GMP) Student
Research Consultant
and GIS Specialist



Affiliated Faculty

Ted Baldwin
MLIS (CEAS), Director
Science and
Engineering libraries



Mark Chalmers
MLIS (CEAS),
Engineering Librarian



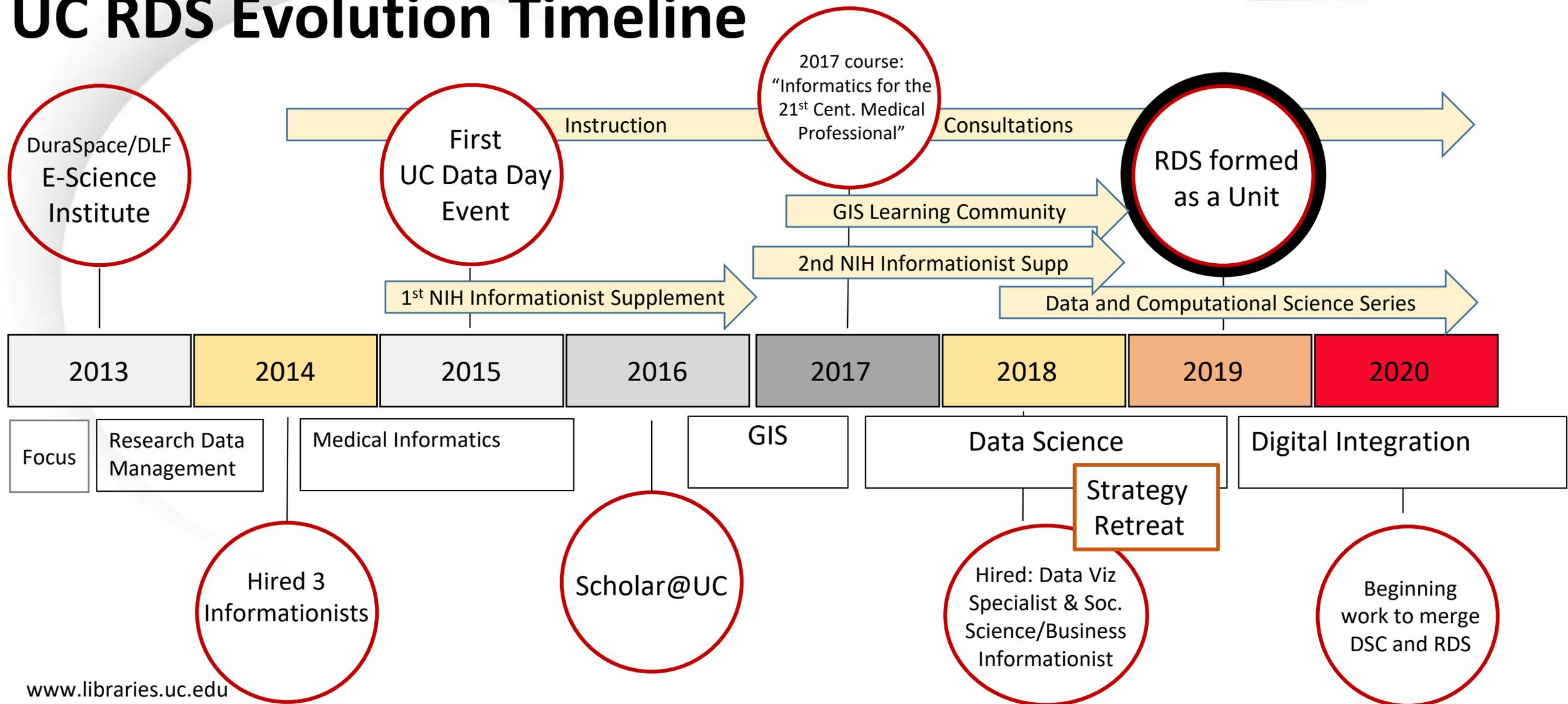
Emily Kean
MLIS (HSL), Research and
Education Librarian



Maggie Patel
MLIS (Langsam/LCOB), Business
& Data Analytic Librarian



UC RDS Evolution Timeline



Developing Relationships

Where are the starting points, the research needs and research foci?

What unique resources do you have to devote to the development of services?

Who on your campus are working in the areas you are considering support for and how do your plans compliment?

- Strategic Planning

- Policies

- Training

- Consultation

- Grant Support

- Infrastructure

How do the library's plans and your unit's mission fit into the larger plans of the institute?

How can you build external relationships with granting agencies to fund innovation?

What are the
Critical
Relationships

Relationships through Services

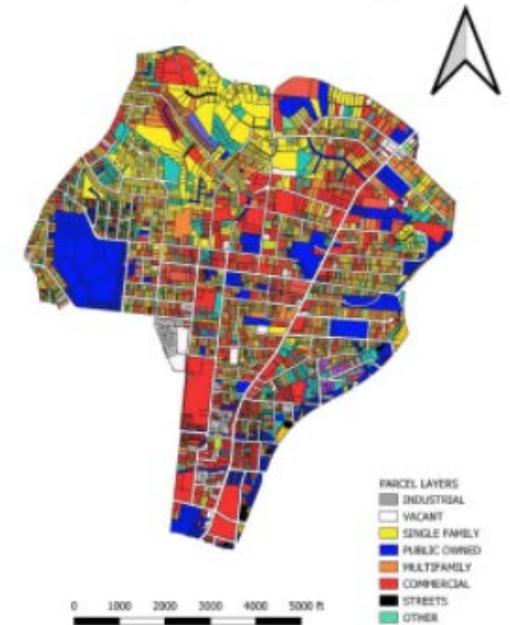
Three Tier Engagement Model

- Triage - **Inform**
- Amplify - **Advise**
- Partnerships – **Do**

Support STEM • Social Science • Biomedical • Humanities

- Researcher Services and Impact
- Data Management
- Data Analytics and Visualization
- **Biomedical Informatics**
- GIS Services
- Events focused on Data

Parcel by Land Use Type



Heat map created for Light Up Avondale Project. The Research and Data Services team created the map to emphasize key attributes of property in Avondale.

Partnerships through Instruction, Research, & Innovation

Teaching, Research Projects, and Program support

- Undergraduate Research Summer Learning Community with Director of Undergraduate Research
- UC 1819 Venture Lab Pre-Accelerator program
- NIH informationist supplement – CARES project

Topic	Discussion Date
What to Expect, How to Thrive	May 15
Collaboration Best Practices	May 29
★ Objectivity is a Myth: Research Perspective	June 5
Data Stewardship	June 12
★ Objectivity is a Myth: Human Perspective	June 19
Research Ethics and Codes of Conduct	June 26
Communicating Research	July 10
★ Understanding Ownership of Your Work	July 17
Compelling Titles and Abstracts	July 24
Leveraging Your Experience for Self-Advocacy	July 31



Ted Baldwin and Rebecca Olson, RDS team members



Cohort Member project presentation

College of
Public Health

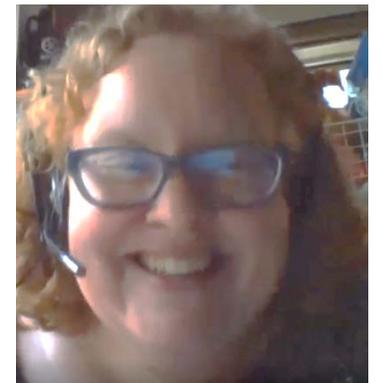
CARES ADDRESSING THE COMMUNITY'S QUESTION:
DOES AIR POLLUTION AFFECT
OUR CHILDREN'S HEALTH?

**Communities Actively Researching
Exposure Study (CARES)**

Challenges overcome through relationships

- Data Management Issues → Participation in the Office of Research Data Management taskforce
→ Service on UC Faculty Research and Scholarship committee
- Supporting ArcGIS Online/StoryMap through consultations and workshops
→ Administration role in ArcGIS Online
- Virtual Workshops → Hosting through Faculty Enrichment Center

Developing Relationships From Challenges



Building Relationships

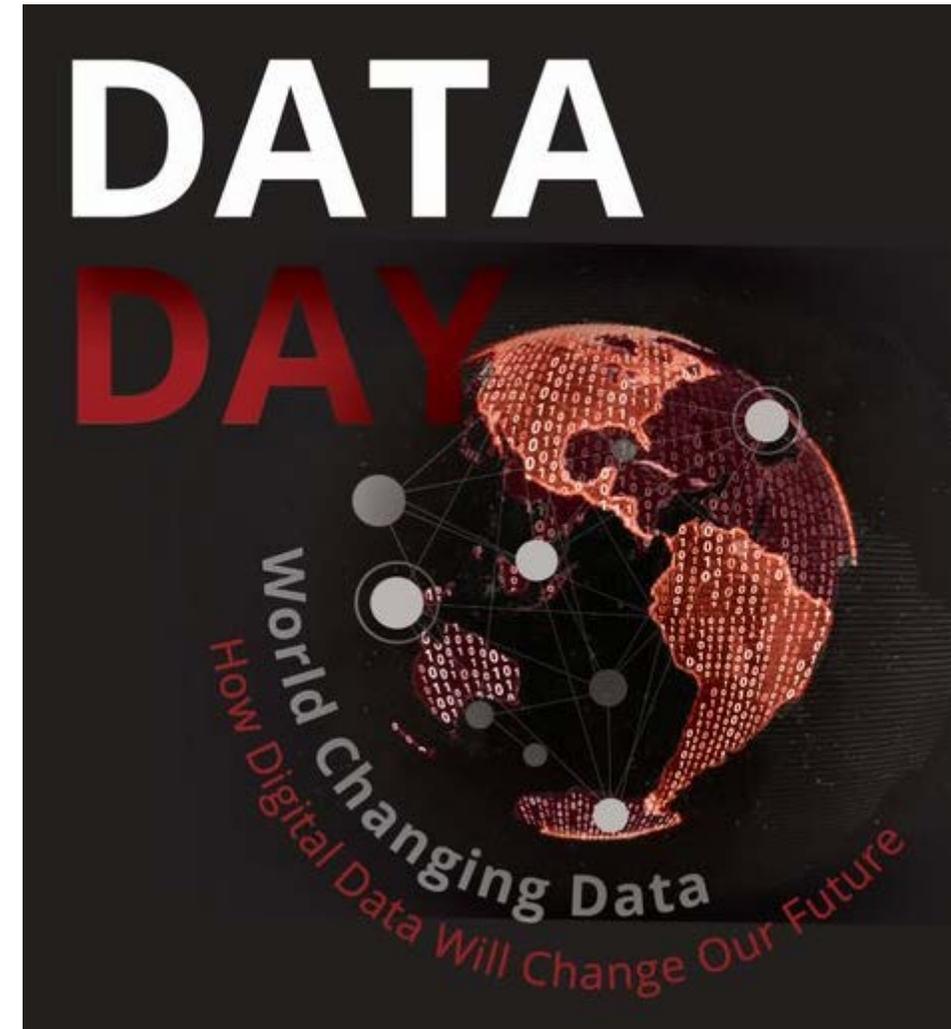
Office of Research

- Serving on Research Advisory Council
- Participation in Office of Research Training Programs as Presenters
 - Infrastructure
 - Data Management plans
 - Developing a NIH BioSketch

IT@UC

- Serve on IT Governance Research and Development Committee
- Co-created the Data and Computational Science Series - funded by Provost grant
- Partnered on annual UC Data Day events

Relationships
through
Aligned
Support



Next Steps: Merger

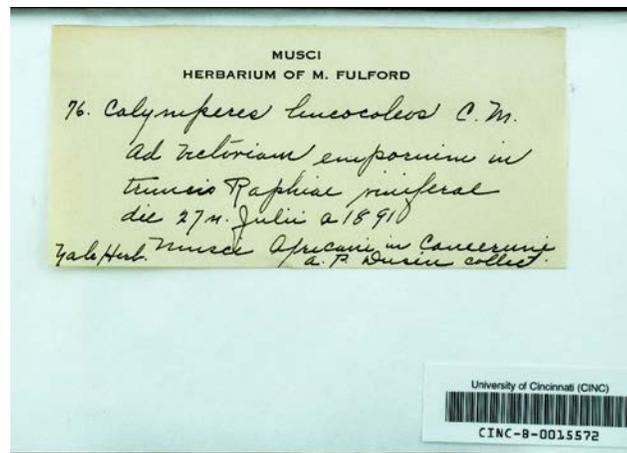
Digital Integration

- RDS will merge with our Digital Scholarship Center
 - The DSC is the research engine with Mellon Foundation funding
- Major area of focus will be:
 - Artificial Intelligence / Machine Learning
 - Transdisciplinary over Interdisciplinary Scholarship: "Team Science"
 - Digital / Data Literacy for the Future Workforce and Academy
 - Data Management and Research Efficiencies
 - Open Science and Research Reproducibility
- Will result in the formation of a “**Digital Core**” supported by the Provost

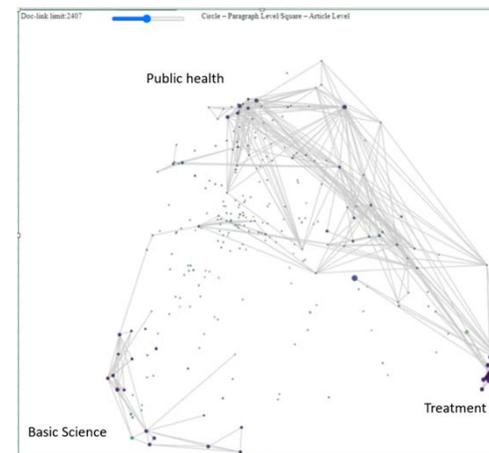
First Steps: Merger

RDS Engagement in DSC Research Projects

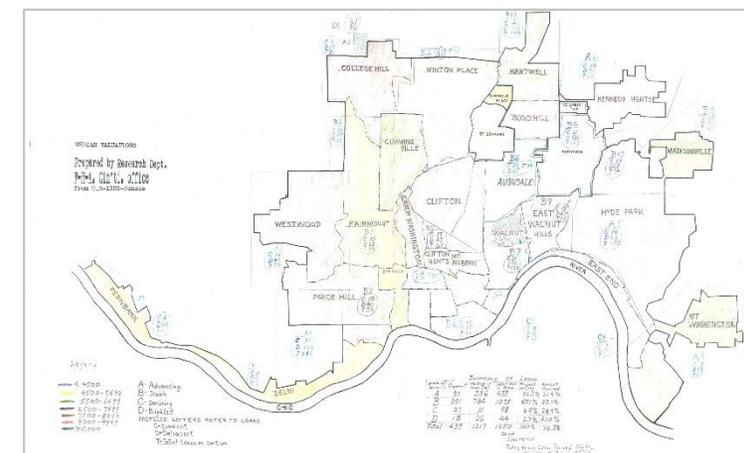
- Computer Visioning of hand written text in Margaret H. Fulford Herbarium collection
- COVID-19 & Virus Literature Models
- Carbon Burden Demographics
- Mapping Racism in Cincinnati



Herbarium Collection Cards

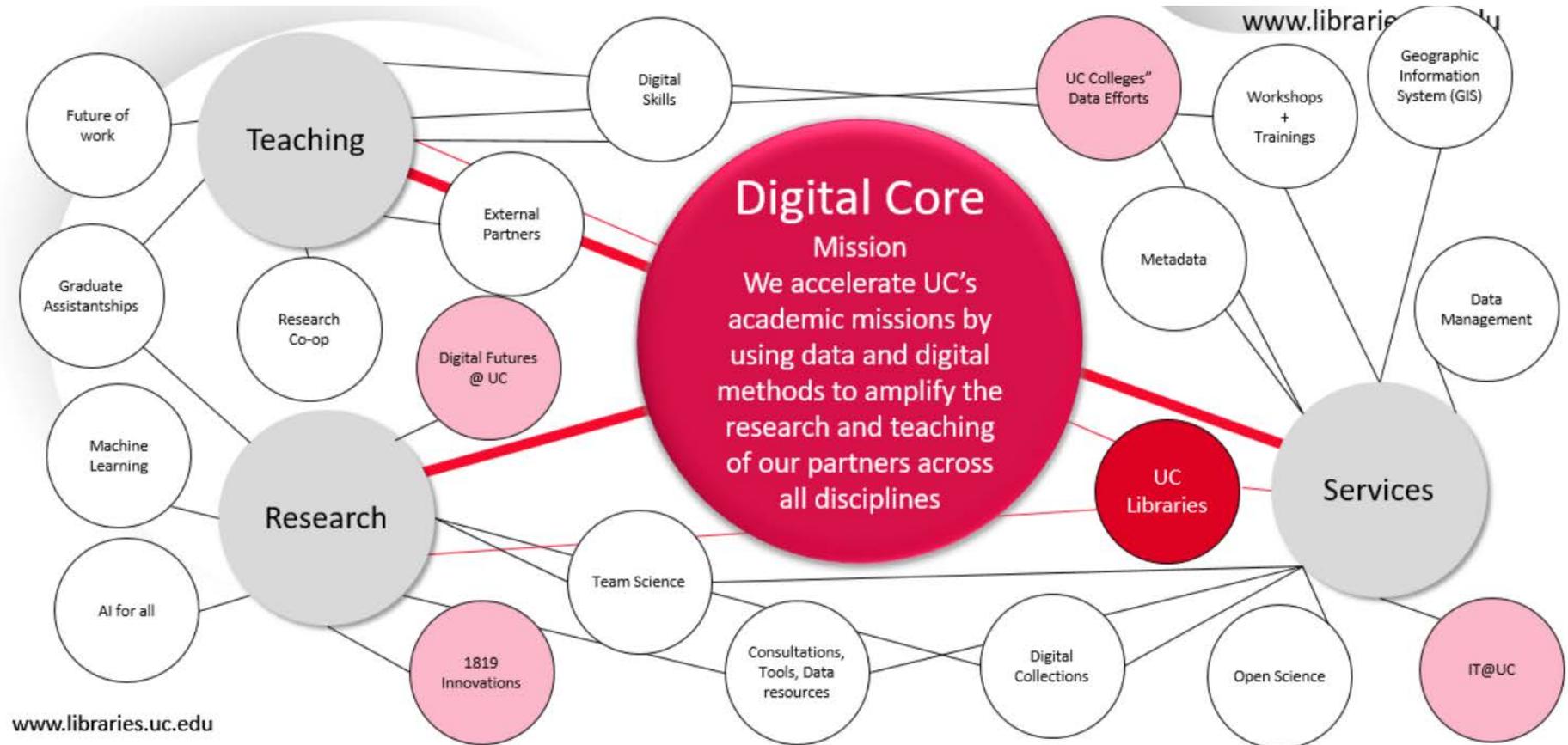


Virus Literature Model



HOLC maps on red-lining

Next Steps: Digital Integration Planning



Future Steps: Digital Integration

Digital Integration

- DSC Membership in Digital Futures (Office of Research) anchor team
 - Human Centered AI
 - Social Justice interest
- Provost-supported Digital Core
 - Goal of Fulfillment of Bearcat Promise, a part of the Academic Excellence strategic direction of the University
 - Developing Digital and Data literacy skills in students
 - Participation in a semester course on Digital and Data Literacy

Thank you for the attention

Questions?

R&DS
Research & Data Services

Contact us at ASKDATA@uc.edu

Resources

- Slide 02 Native Lands | <https://native-land.ca/>
UC Fact Sheet | <https://www.uc.edu/about/factsheet.html>
About the library | <https://libraries.uc.edu/about.html>
- Slide 05 RDS Team | <https://libraries.uc.edu/research-teaching-support/research-data-services.html>
| <https://www.uc.edu/news/articles/2019/09/n20859462.html>
- Slide 09 Undergraduate Research Development Series
| <https://www.uc.edu/campus-life/careereducation/get-experience/research/summer-workshop-series.html>
Informationist Supplements | <https://www.nlm.nih.gov/ep/InfoSplmnts.html>
CARES | <https://cph.uky.edu/research/cares>
Scholar@UC | <https://scholar.uc.edu/collections/ks65hd333>
UC 1819 | <https://uc1819.com/>
- Slide 11 DCSS | <https://libraries.uc.edu/research-teaching-support/research-data-services/data-computational-science-series.html>
Data Day | <https://libapps.libraries.uc.edu/blogs/dataday/>
- Slide 13 Digital Futures | <https://research.uc.edu/news/2019/05/14/digital-futures-anchor-program-launches>
- Slide 15 Bearcat Promise | <https://www.uc.edu/about/strategic-direction/academic-excellence/bearcat-promise.html>
- Slide 16 RDS | <https://libraries.uc.edu/research-teaching-support/research-data-services.html>