Creative Commons License: Some rights reserved by Sidereal

Think BIGGER;
Amplifying librarianship with state-of-the-art technology

Carl Grant
Associate Dean, Knowledge Services and Chief Technology Officer

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

June 2016

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

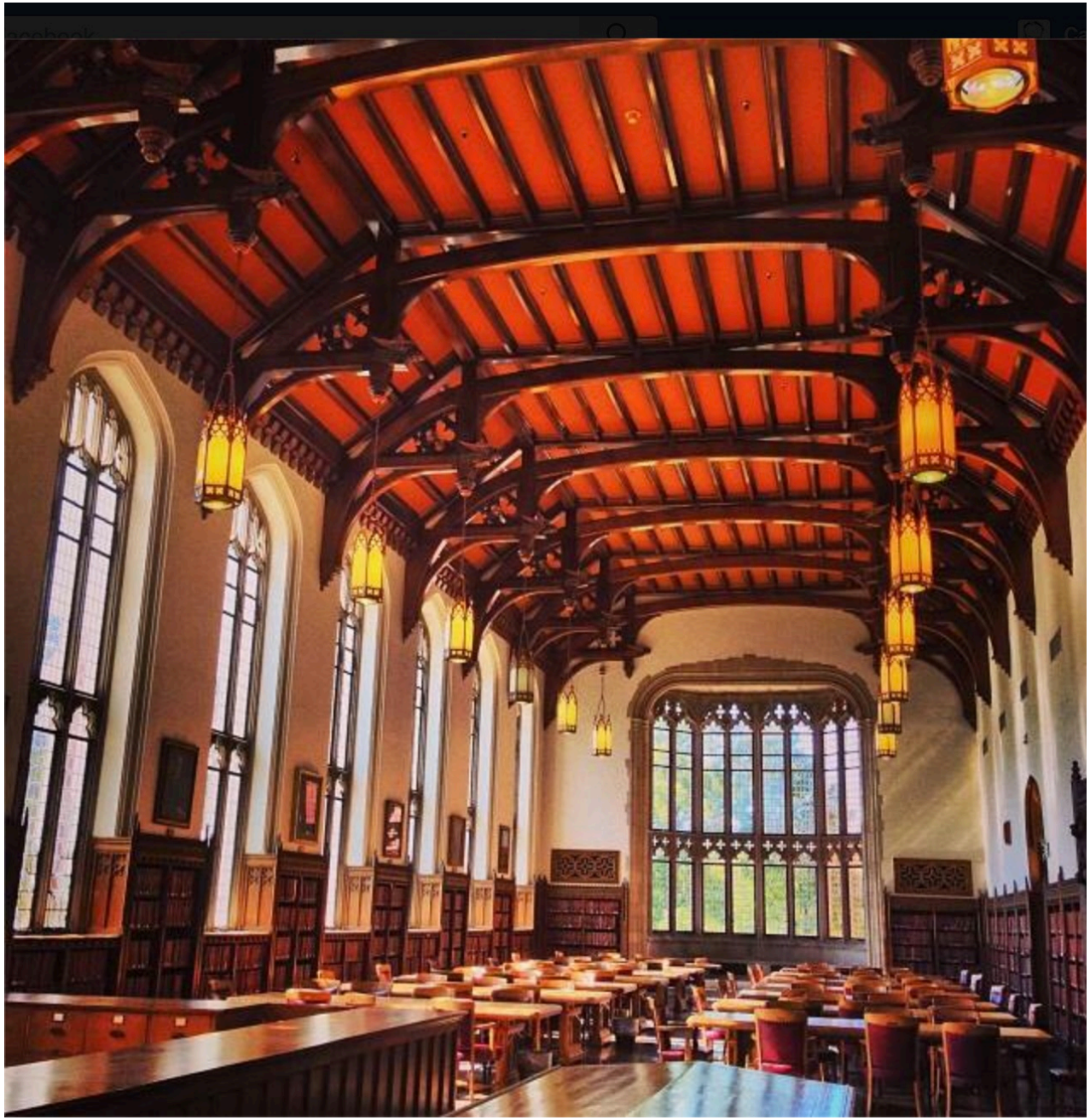
Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

University Libraries Strategic Plan (i.e. know where you're headed!)

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Photo by Carl Grant

"Vision without action is a daydream. Action without vision is a nightmare."

Japanese Proverb

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Provost Goals

Defined As:

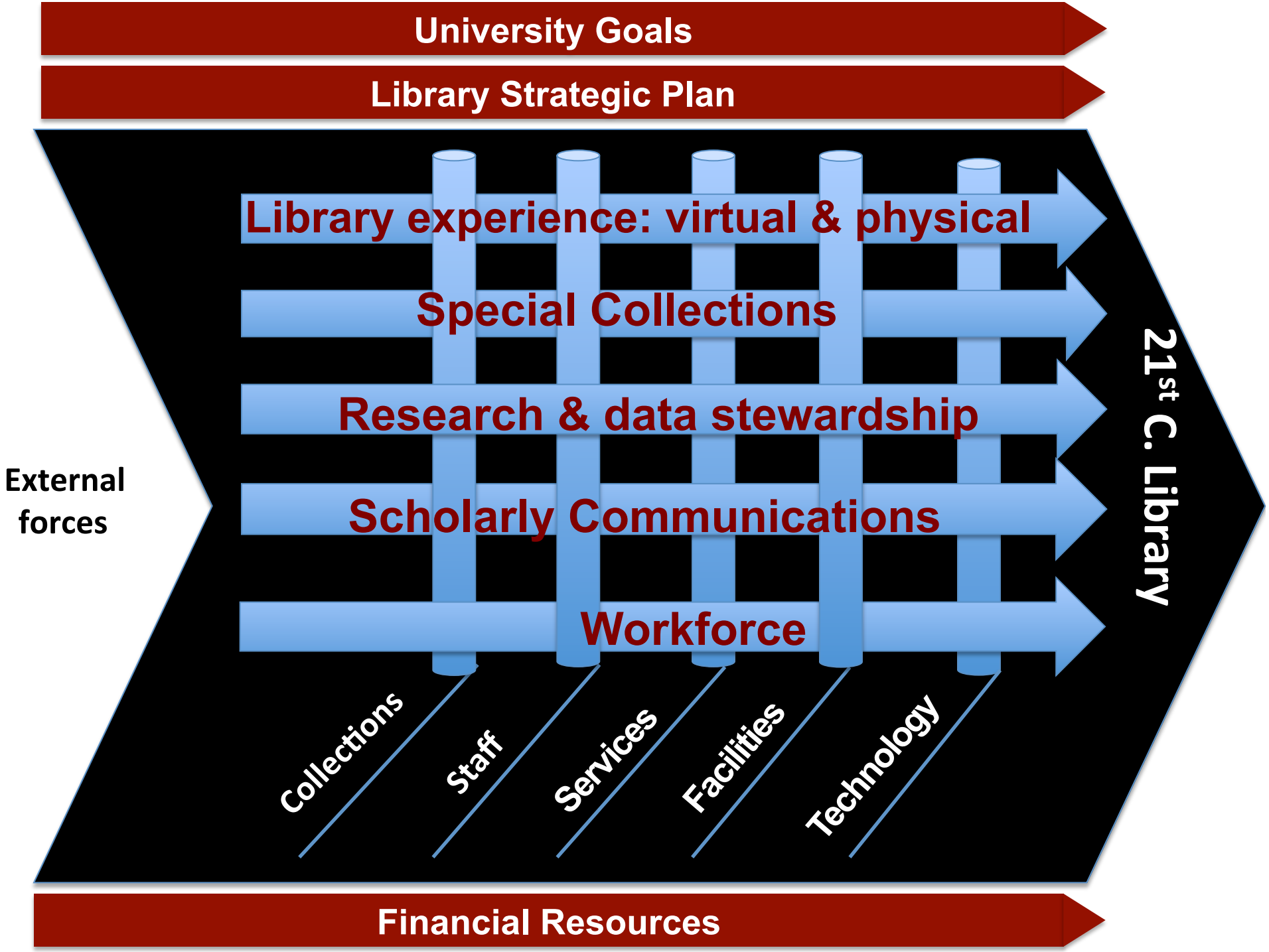
P1. Student Success

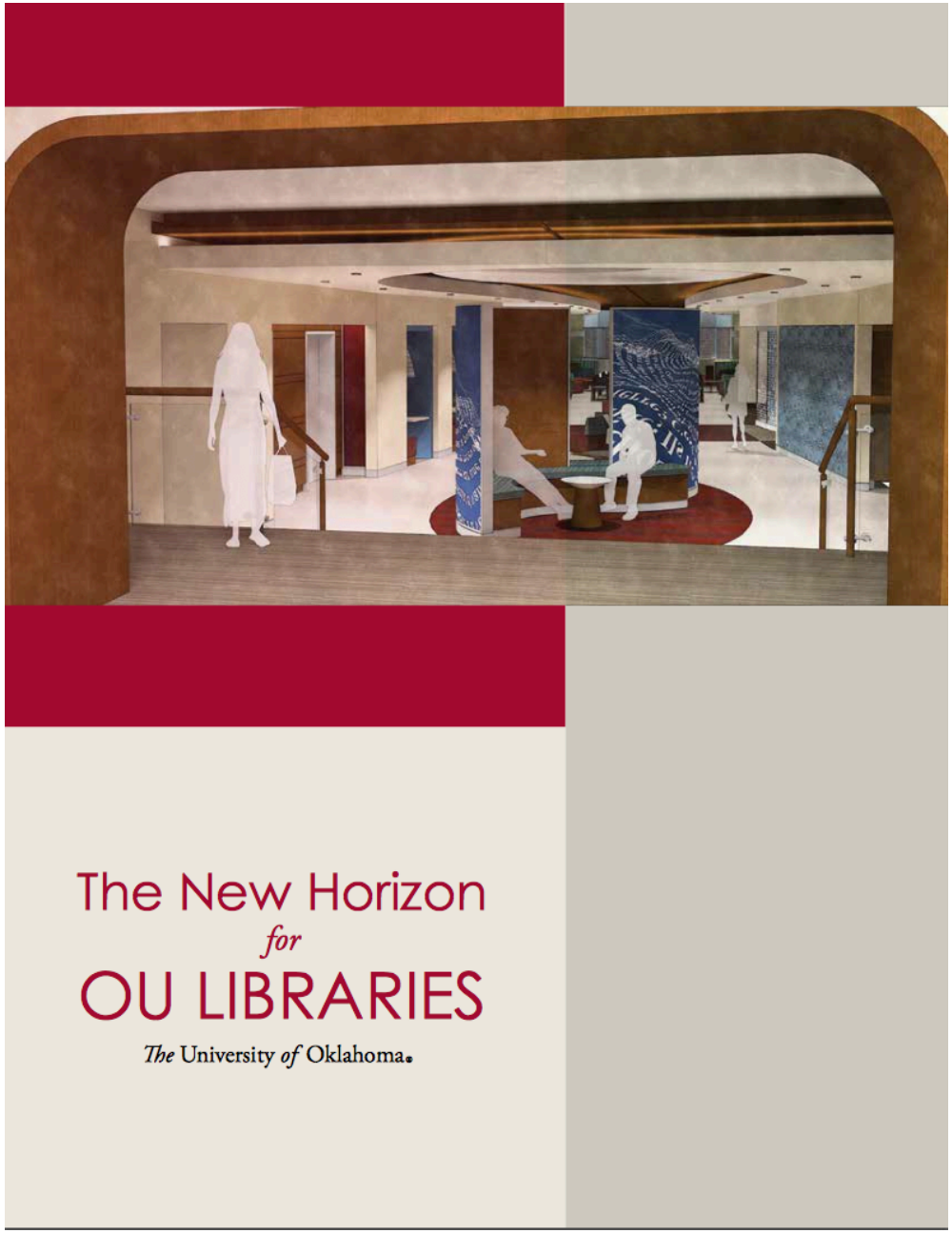
P2. Faculty Impact

P3. Community Impact

P4. Brand Equity

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu


University Goals
Library Strategic Plan
Library experience: virtual & physical
Special Collections
Research & data stewardship
Scholarly Communications
Workforce
External forces
21st C. Library
Collections
Staff
Services
Facilities
Technology
Financial Resources


The New Horizon
for
OU LIBRARIES
The University of Oklahoma
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Education
Honors
ROTC
Outreach
Graduate
Liberal Studies
Law
Fine Arts
Architecture
OU Libraries
Engineering
International Studies
Earth & Energy
Business
Intellectual
Commons
Journalism & Mass Communication
Arts & Sciences
University College
Atmospheric and Geographic Sciences
OU Libraries
Crossroads of the University

University Libraries Strategic Plan (turning it into vision & action)

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Creating the 21st Century Library
Highlights from last 36 months…

Creating excellence in the library experience: Physical & Virtual

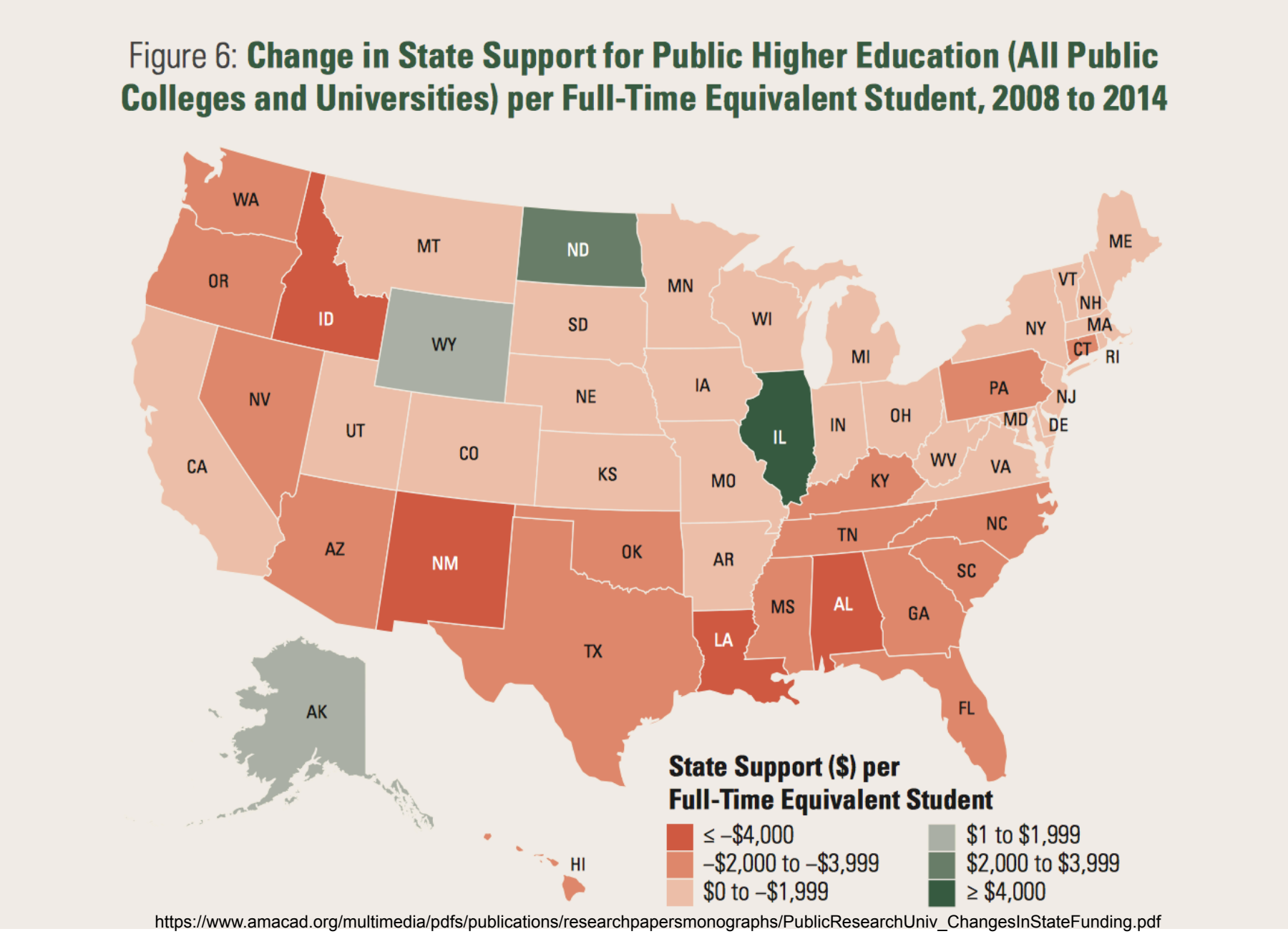
- New Discovery tool (Primo) & LSP (Alma) implemented
- New Website implemented
- Collaborative Learning Commons & Digital Scholarship Lab opened
- Special Collections floor (5th) remodeled

Building on excellence in Special Collections

- Built and opened a new Digitization Laboratory
- Galileo's World Exhibition launched (2015-2016)

Supporting OU Campus Research

- New Digital Scholarship Lab opened and staffed
- New Researchers Tools Webpage
- Supporting Open Access & Edition Open Access
- New ShareOK repository & Open Journal System (shared w/OSU)
- Open Educational Resources (OER) now supported
- Innovation @ the Edge opened. Innovation Hub – August 16, 2016
- CLIR Postdoctoral Fellow in VR Preservation/Archiving – Sept 1



https://www.amacad.org/multimedia/pdfs/publications/researchpapersmonographs/PublicResearchUniv_ChangesInStateFunding.pdf

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Some examples…

Built a DigiLab

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

PEGGY V. HELMERICH COLLABORATIVE LEARNING CENTER

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

PEGGY V. HELMERICH COLLABORATIVE LEARNING CENTER

Digital Scholarship Laboratory

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Major goals of G.W. Exhibition (know where you're going):

- Celebrate the 125 anniversary of the University.
- Emphasize the library as the intellectual crossroad, bring the University together around the exhibit.
- Everyone, anywhere should be able to go and see it (physically or virtually, now and **far into the future**)
- Make it appealing to scholars, public & youth
- Show the importance of science and that knowledge builds on knowledge

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Highlighting our special collections in a cross-campus exhibition featuring:

- 20 exhibitions
- 7 locations
- 3 campuses
- Virtual website

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses

Featured in main lobby of Library:

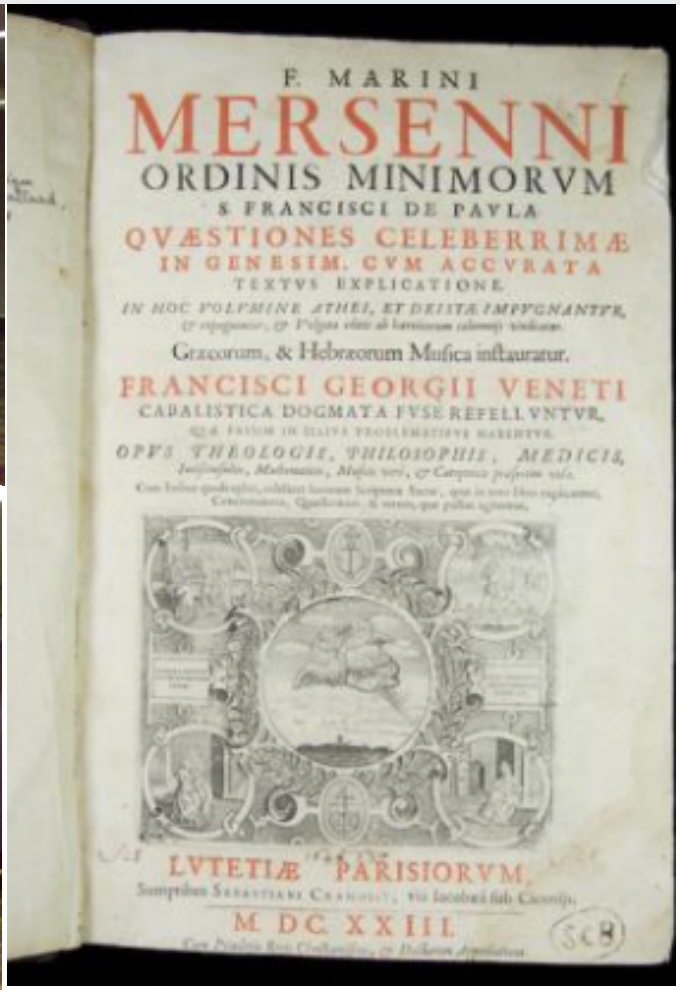
- 20 foot replica of Tower of Pisa
  - Built by College of Engineering
  - Operating ball drop simulating Galileo's reported test
  - Speeds calculated and reported to user

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses



F. MARINI
MERSENNI
ORDINIS MINIMORVM
S. FRANCISCI DE PAVLA
QVÆSTIONES CELEBERRIMÆ
IN GENESIM, CVM ACCVRATA
TEXTVS EXPLICATIONE
Græcorum, & Hebræorum Musica instauratur.
FRANCISCI GEORGII VENETI
CABALISTICA DOGMATA FVSE REFELLVNTVR,
OPVS THEOLOGIS, PHILOSOPHIS, MEDICIS,
LVTETIÆ PARISIORVM,
M. DC. XXIII.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

GALILEO'S WORLD
An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses
The Dawn of the Space Age
GALILEO'S WORLD
GALILEO'S WORLD
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses

Website

http://galileo.ou.edu

Drupal based website developed

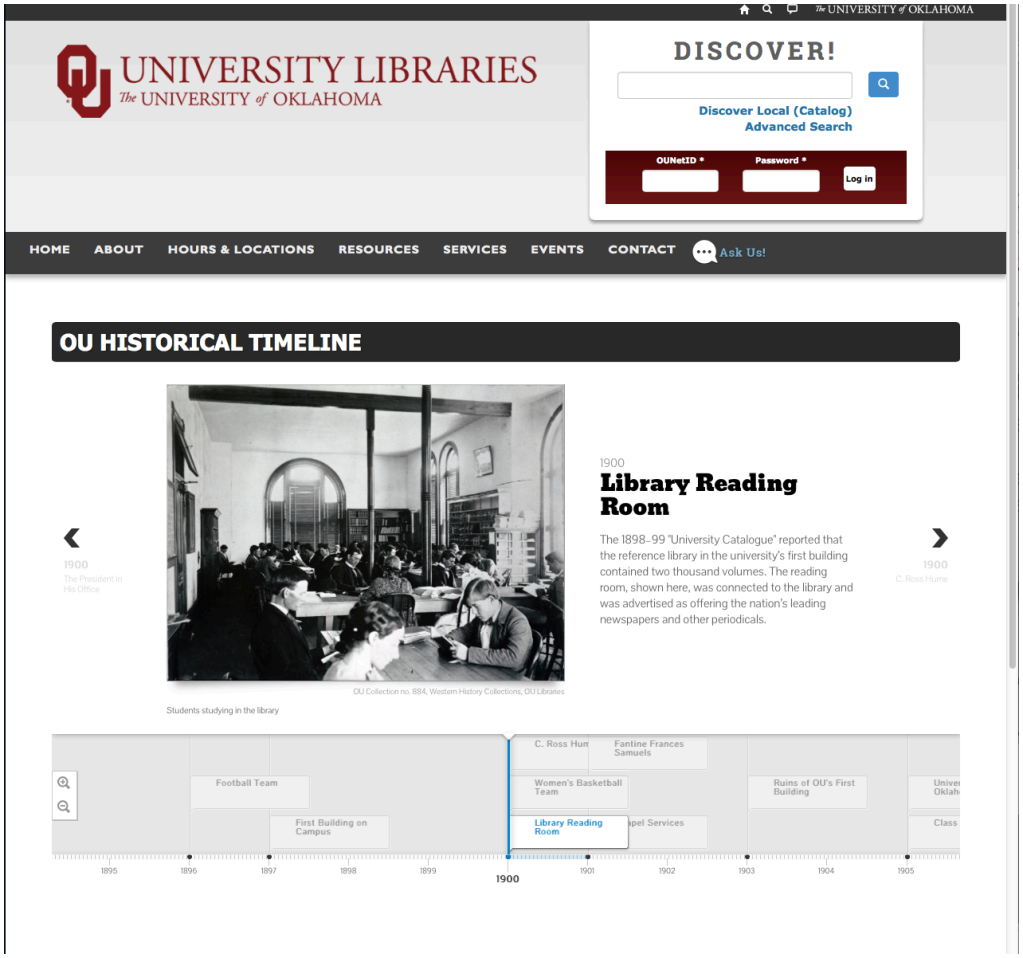
- Descriptions from the Curator
- Images of every item in exhibit
- Embedded book viewer for most works
- Information on all exhibits, events, programs, educational resources.
- Links to social media.

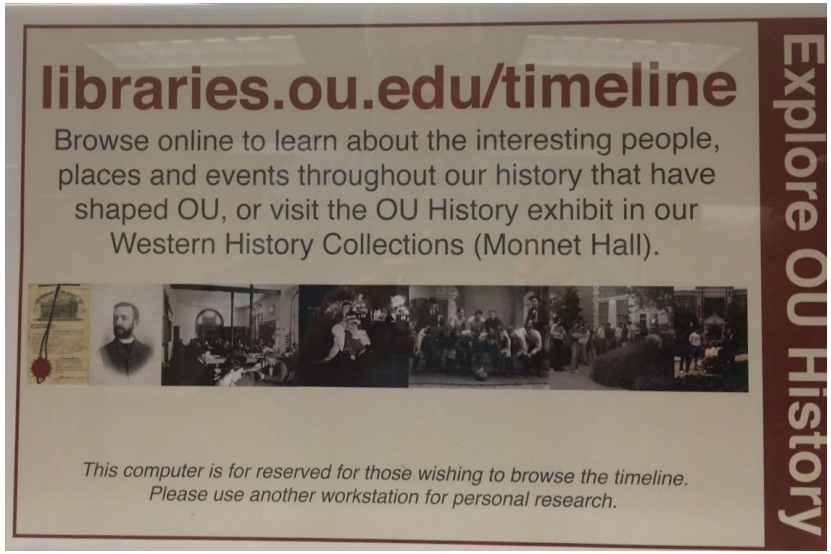
The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses





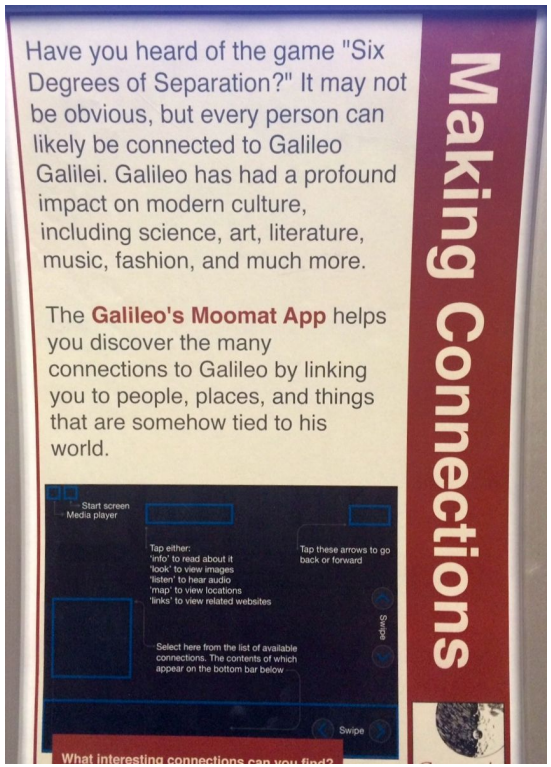
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

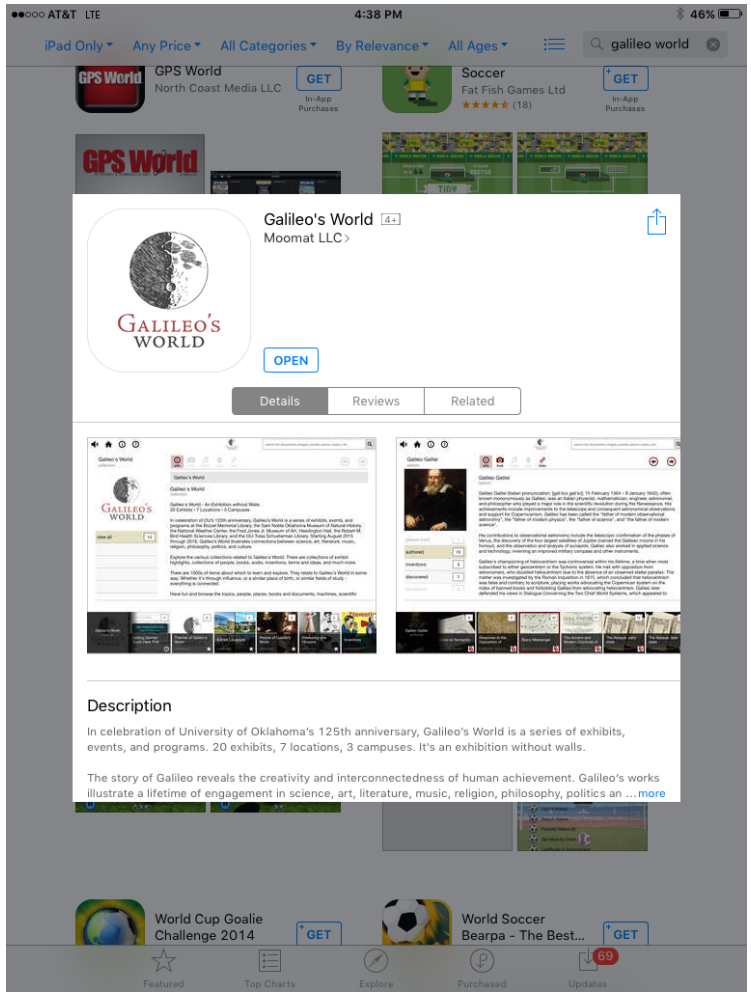
GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses

MooMat's CultureScout implementation of Galileo's World is downloadable from the App Store



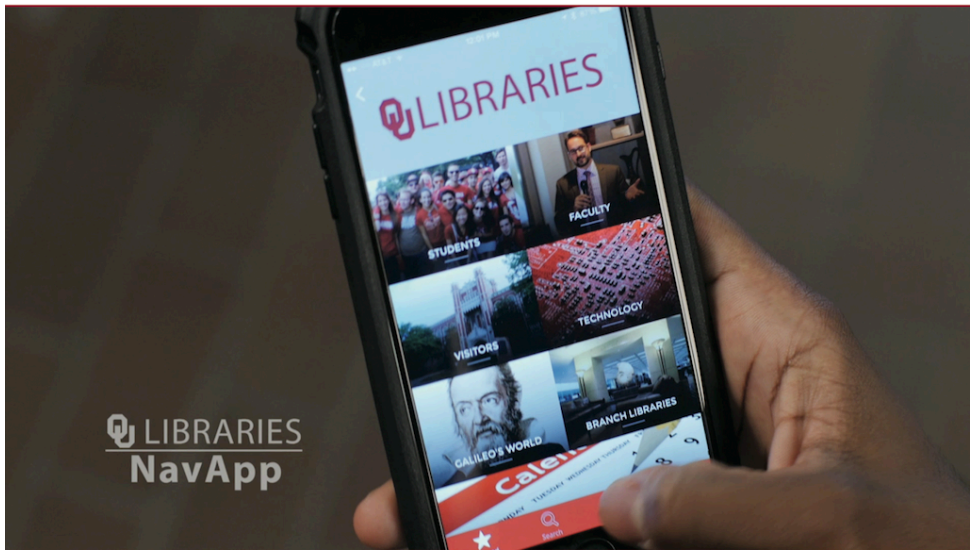


The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses



OU Libraries developed its first mobile app, OU Libraries NavApp

- For iOS and Android
- Provides Bluetooth-beacon-based indoor navigation in OU's main library (Bizzell), exhibit case-specific content and,
- GPS-based outdoor navigation across the OU Norman campus

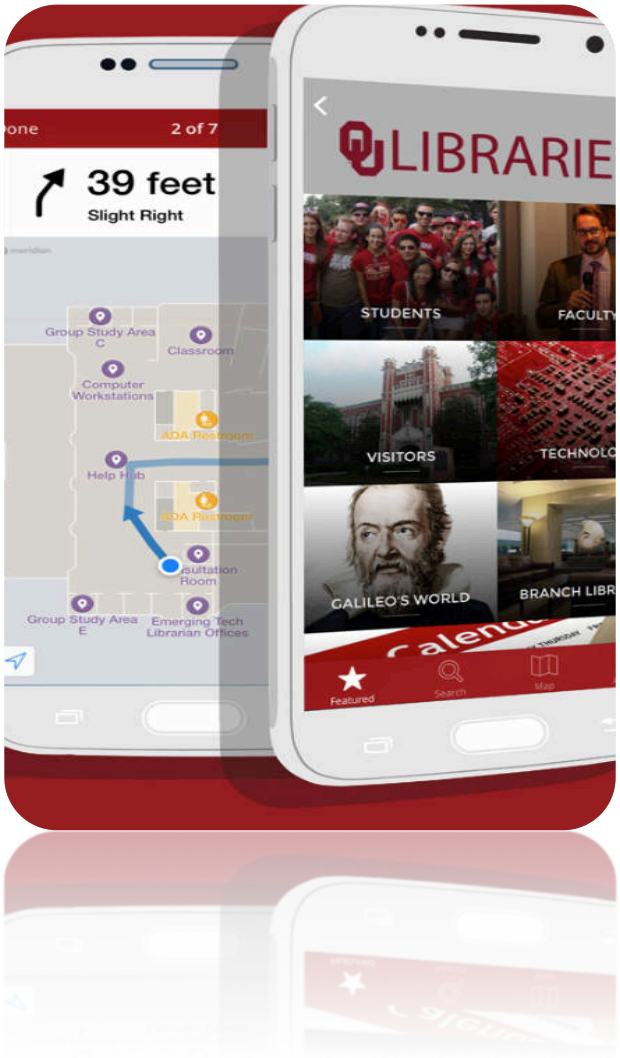
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses

Goals of NavApp?

- Unify digital/physical campus resources
- Simplify complex indoor (and outdoor) environments
- Support Galileo's World exhibition across campus
- Generate campus-wide interest in innovative tool
- Feed useful content based on location and user type
- Provide analytics for gauging resource usage throughout campus



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

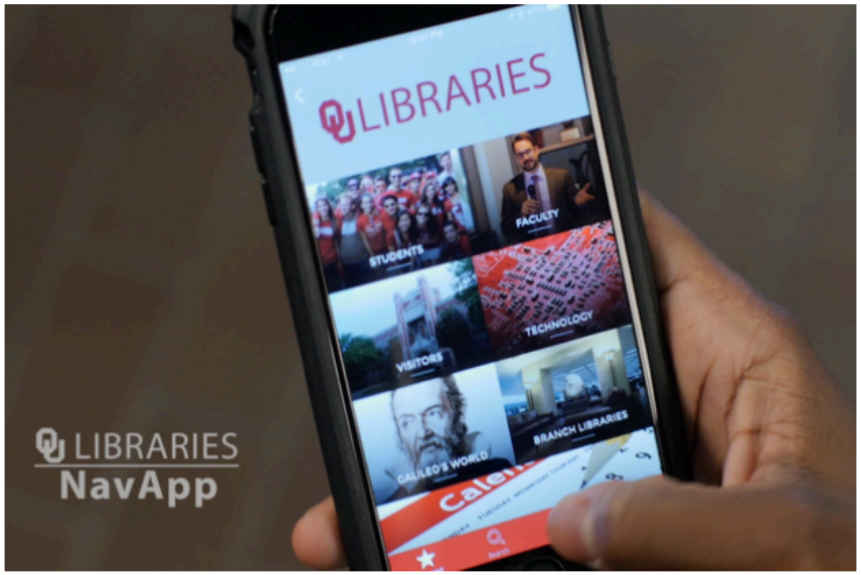
COMPUTERWORLD

Popular Now

Home > Networking > Wireless Networking

NEWS

Oklahoma Sooners use beacons, sens rooms on massive campus



The University of Oklahoma has created an app that students can use to navigate to group meeting rooms and other locations on campus using Aruba beacons and sensors. Credit: Aruba

Beacon technology still in early-adopter stage, analysts report

By Matt Hamblen FOLLOW

Computerworld | Dec 2, 2015 3:00 AM PT

RELATED TOPICS

Wireless Networking

Mobile & Wireless

The University of Oklahoma has begun rolling out beacon technology to help students find study rooms and class inform central library and other buildings by using their smartphones about the vast campus in Norman, Okla.

CAMPUS TECHNOLOGY

NEWS FEATURES
OPINION RESOURCES
RESEARCH CASE STUDIES
TUTORIALS NEWSLETTERS

Networking/Wireless AV & Presentation Software & Systems Green ERP

Cooking up Faster Mobile Image Processing

Study: Millennials Spend More Than 3 Hours a Day on Mobile Phones

G+1 0 Tweet Share 15 Share 0

Printable Format
E-Mail this page

Mobile

U Oklahoma Libraries Launches Navigation App

By Rhea Kelly | 08/25/15

Patrons at the University of Oklahoma Libraries can now navigate the system's collections, exhibits and campus landmarks via smartphone. The university has deployed Aruba Beacons and the Aruba Meridian Mobile App Platform to create the OU NavApp, a mobile app that provides turn-by-turn directions, location-based information and educational content to help students, faculty and visitors find their way through the seven-floor, 400,000-square-foot library system.

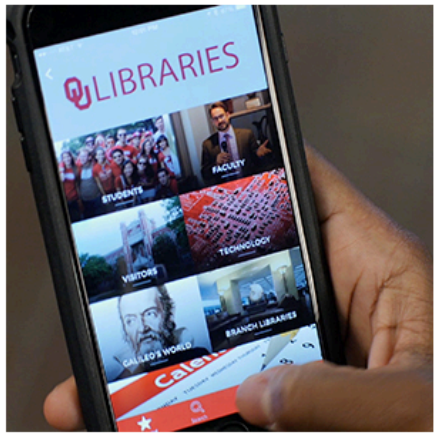


Photo: Business Wire

2016 Campus Technology Innovators

Education Futurists

University of Oklahoma
Project: OU Libraries NavApp
Project Leads: Matt Cook, emerging technologies librarian
Vendors/technologies: Aruba, Meridian, RFIP

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

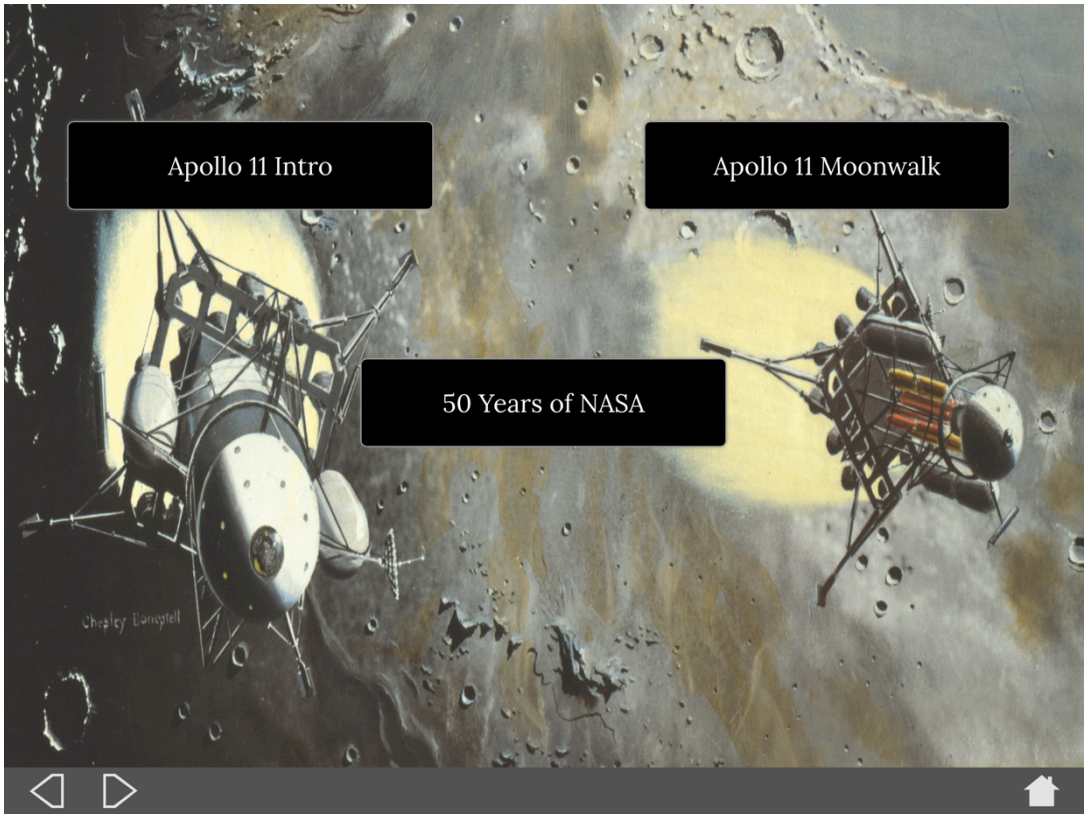
GALILEO'S WORLD

An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses

Tablet Displays

Developed a separate app for each nook in Digital Technology Square, including:

1. Dawn of Space Age
2. Mars and the Imagination
3. Quest of Other Worlds



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

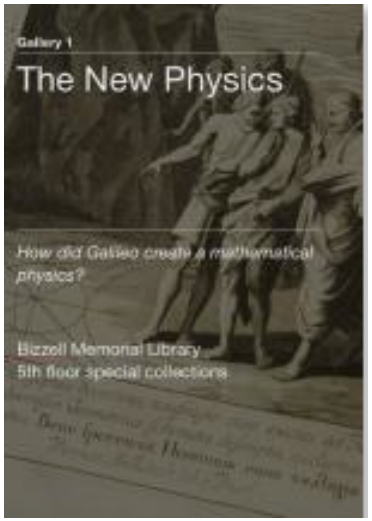
GALILEO'S WORLD

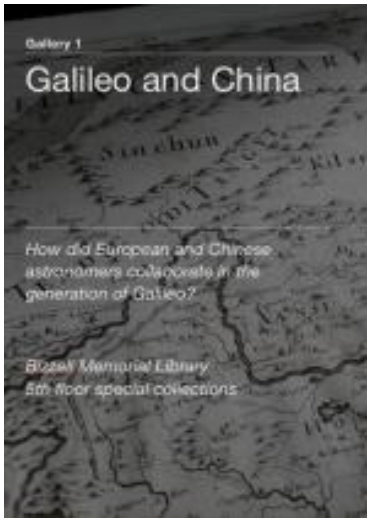
An Exhibition without Walls

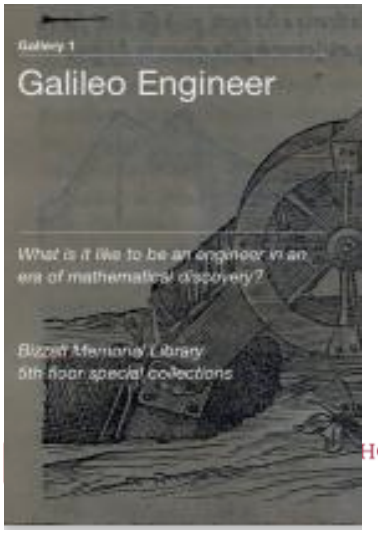
20 Exhibits • 7 Locations • 3 Campuses

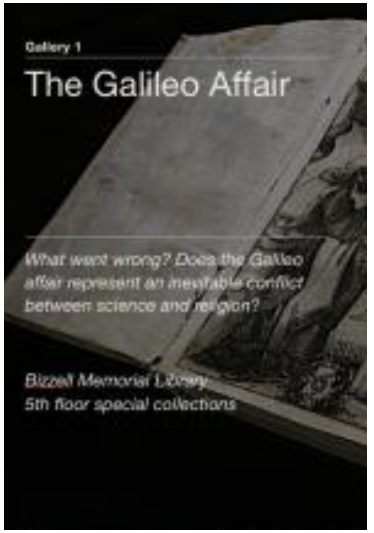
E-Books

- Created "Gallery Guides" using iBook Author
- Offered 2 versions:
  - PDF for people w/o iPads
  - iBook version (fully interactive)









GALILEO'S WORLD

An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses

Hackathons

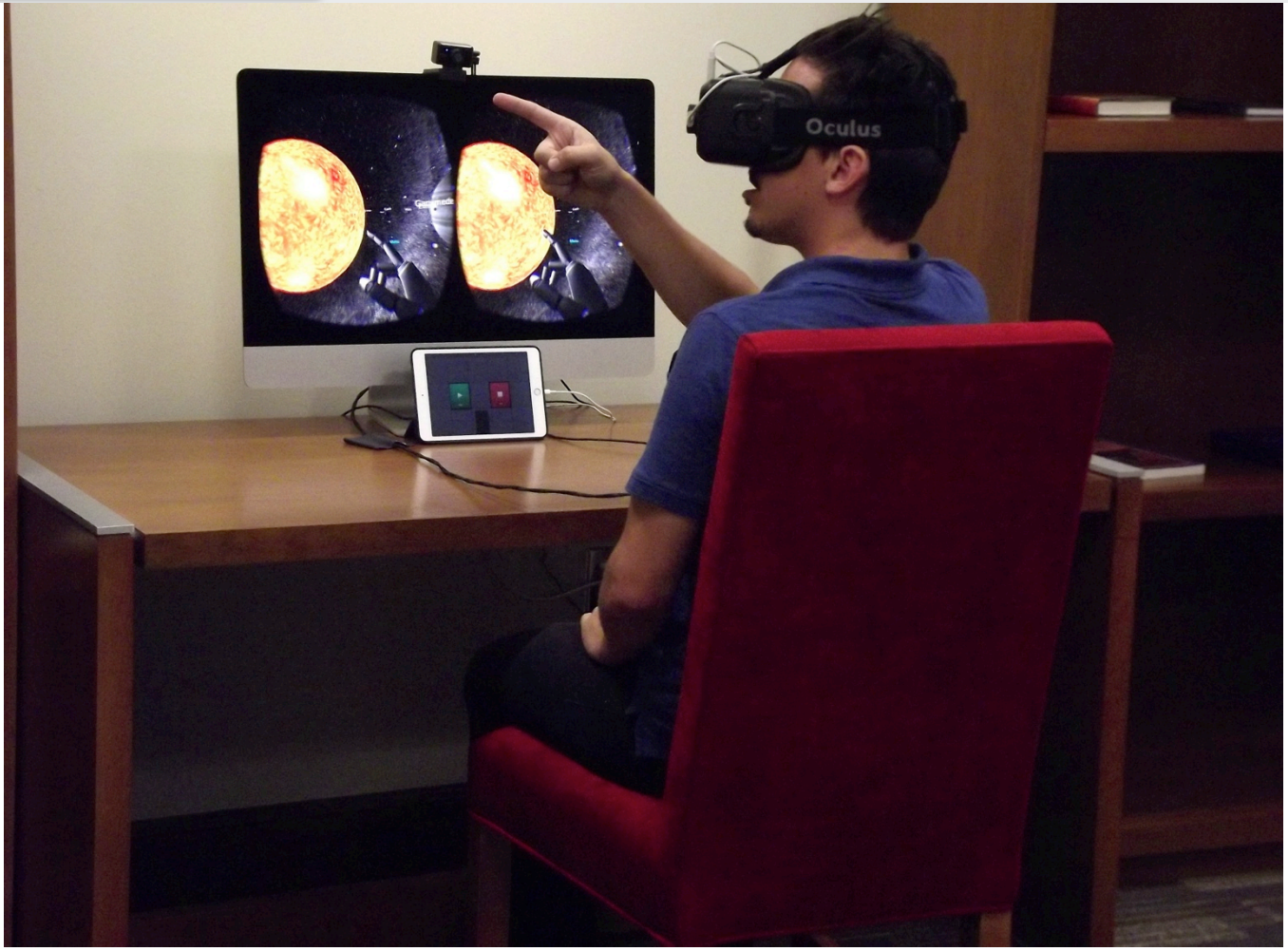
- One U Cup - working on a Galileo's World VR session with Verizon
- Digirlz session, - working on a session with Microsoft

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses



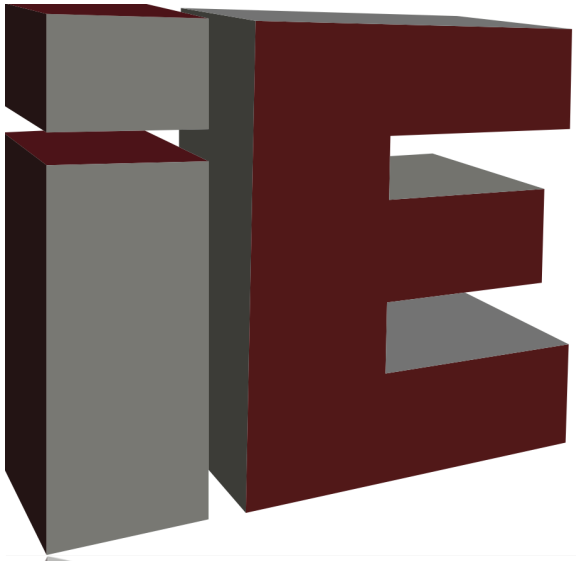
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

GALILEO'S WORLD

An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu



INNOVATION @ THE EDGE

THE UNIVERSITY OF OKLAHOMA LIBRARIES

CONNECTING YOU TO THE INNOVATION HUB

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

What is the Innovation @ the Edge?

- Located in Bizzell Memorial Library – center of campus.
- **Combination of** Makerspace/ FabLab/Startup Incubator, Classroom, Seminar Room, Laboratory – Applied work space.
- A **culture (or mindset) of experimentation** with the latest hardware and software.
- Constant **training, workshops, clubs, and events** to build a supportive, interdisciplinary culture.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

What is the Innovation @ the Edge?

- Open to all
- Peer innovators & experts on staff/faculty
- Collaborative Learning
- New methods of pedagogy, research and creativity

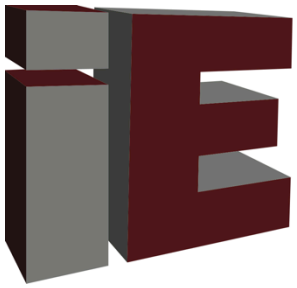
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Why the Innovation @ the EDGE?

Books/Serials are tools for creating & conveying knowledge

So are Innovation Laboratories for the physical/virtual expressions of new digital knowledge.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu



INNOVATION @ THE EDGE
THE UNIVERSITY OF OKLAHOMA LIBRARIES
CONNECTING YOU TO THE INNOVATION HUB

Why the Innovation @ the EDGE?

"Academic libraries… the intellectual hub of campus—a place where students, faculty and staff from all disciplines can gather to explore, create and gain new knowledge... *by bringing maker spaces into libraries, we can provide more options for self-directed, innovative learning; we can provide a space that acts as an incubator for ideas; and we can provide tools for the rapid prototyping of those ideas.*"

http://acrl.ala.org/techconnect/post/makerspaces-move-into-academic-libraries

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

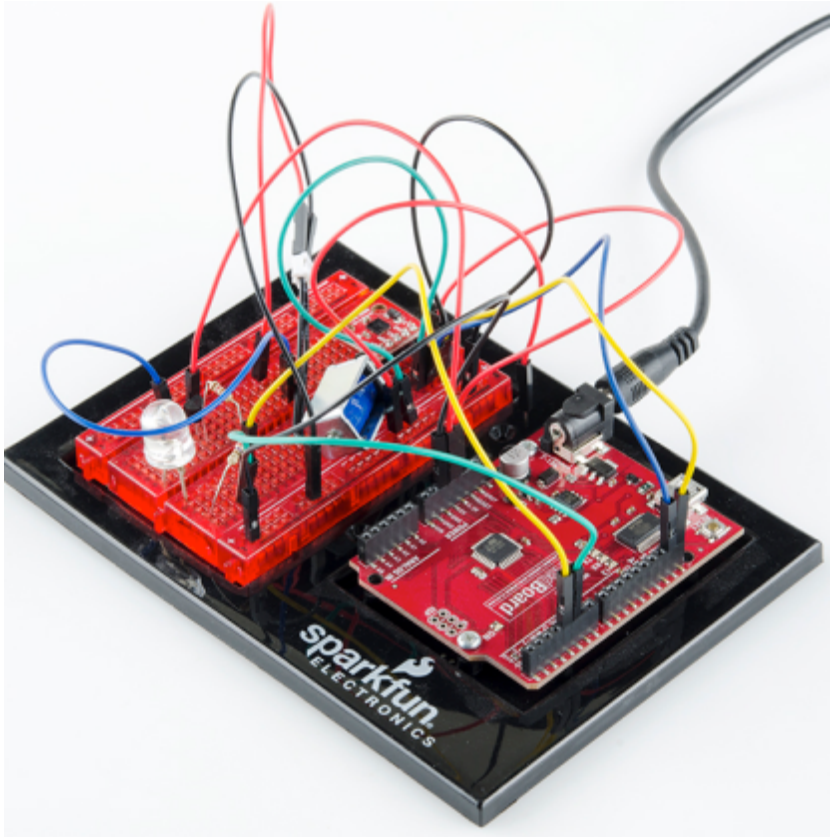
INNOVATION @ THE EDGE
THE UNIVERSITY OF OKLAHOMA LIBRARIES
CONNECTING YOU TO THE INNOVATION HUB

What are those tools?

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Microcontrollers

- Classes taught in use of microcontrollers
- Low barrier to entry
- Supports reproducible research



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

3D Printing

LULZBOT™

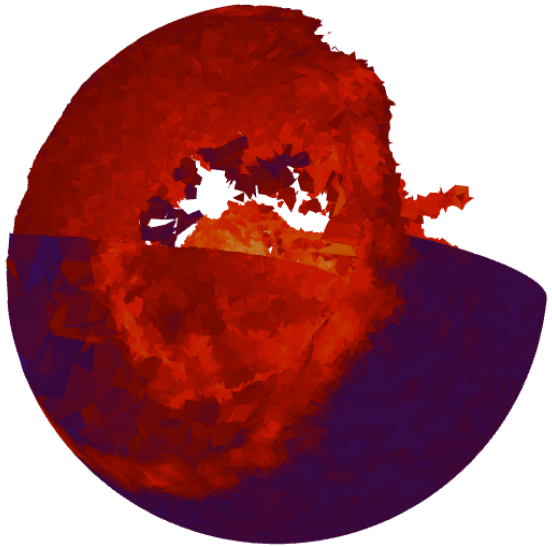
MakerBot®

Physical expressions of virtualization

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

3D Printing

Dr. Madura's team (our NASA collaborator's) hints at the potential long-term value of these systems when describing how, "*...**3D prints and visualizations reveal important, previously unknown [information]...", and, provide new means for, "conveying complex ideas..***" (Madura et al. 2015).



Visualized supercomputer data from Our NASA collaborator team.

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Informatics

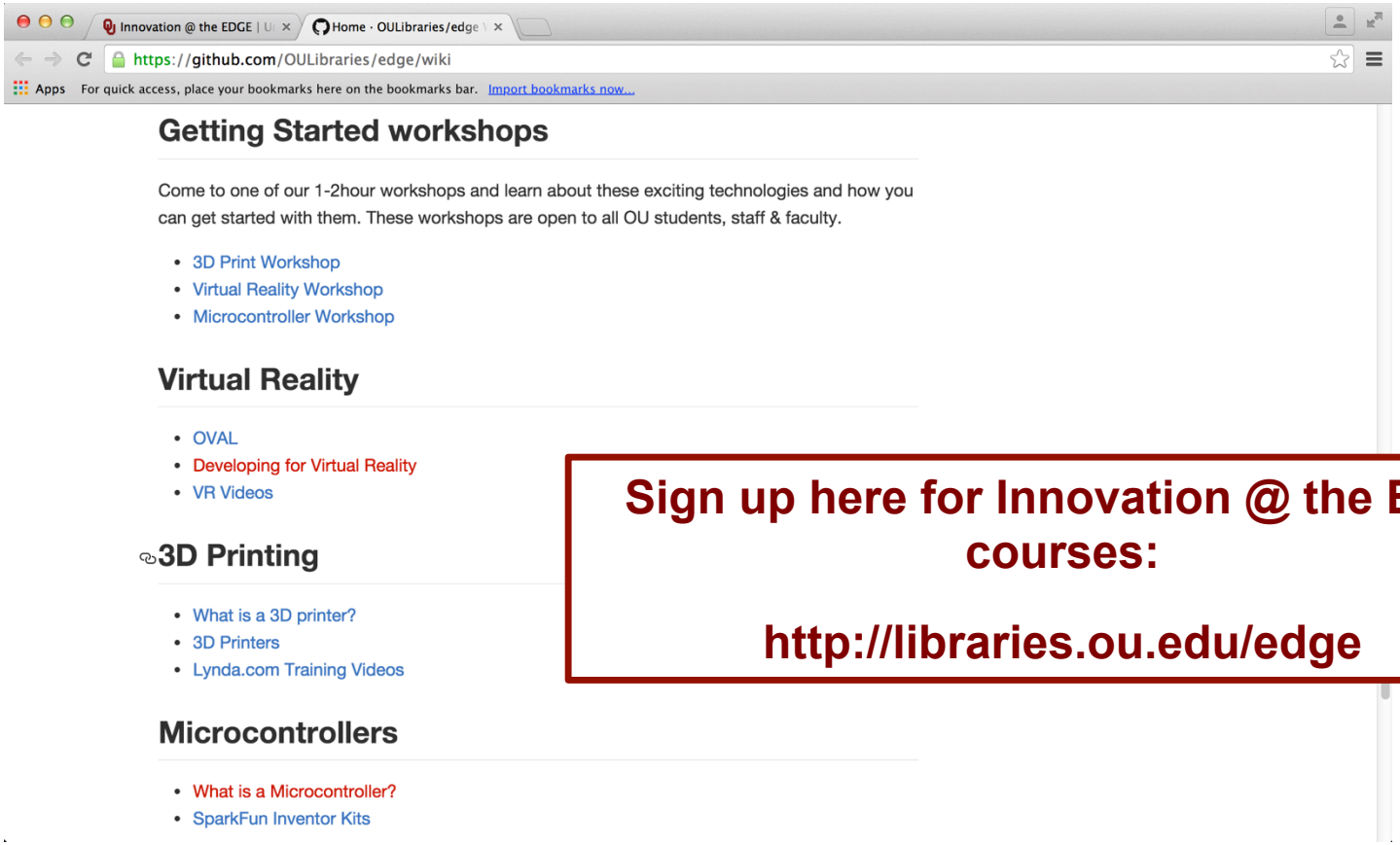
- Experienced researcher & programmer
- Primarily grant funded
- OU Libraries buys 20% of his time from IT
- Addresses researcher needs at lower-end (where 80% of research is done)

Mark Stacy

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

software carpentry

Teaching basic lab skills for research computing



Sign up here for Innovation @ the Edge courses:

http://libraries.ou.edu/edge

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Host a Workshop

Find out how to host a workshop at your institution or organization

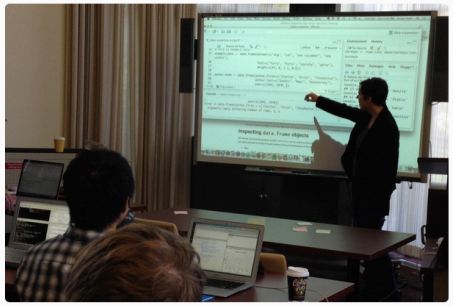
More ›

Attend a Workshop

Most workshops are coordinated by local hosts. Find out if there is a workshop in your area or how to attend one.

More ›

Get Involved

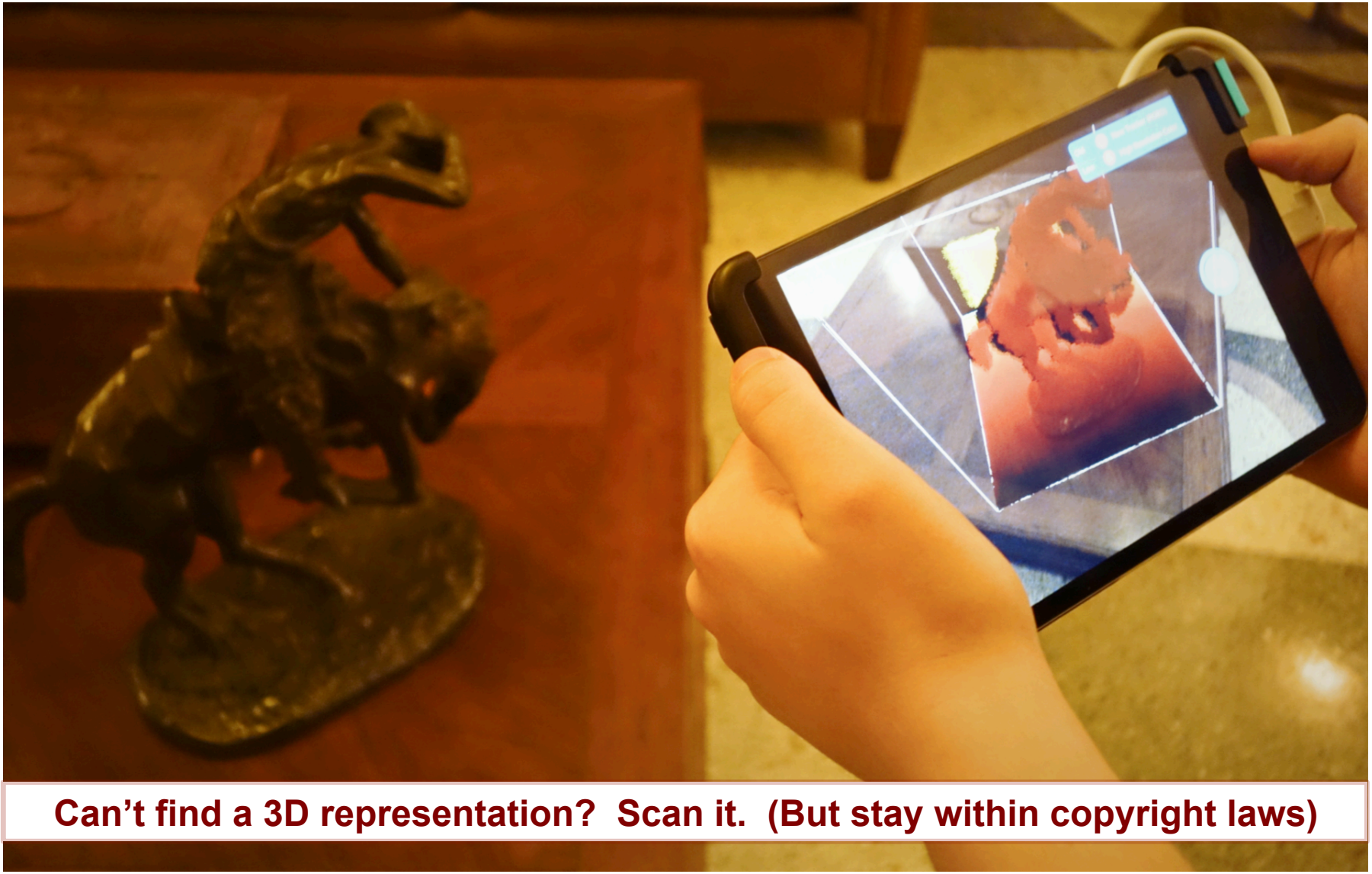


Data Carpentry is a volunteer effort. Find out how you can be an instructor, help develop content, or support us.

More ›

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Virtual Reality



Can’t find a 3D representation? Scan it. (But stay within copyright laws)

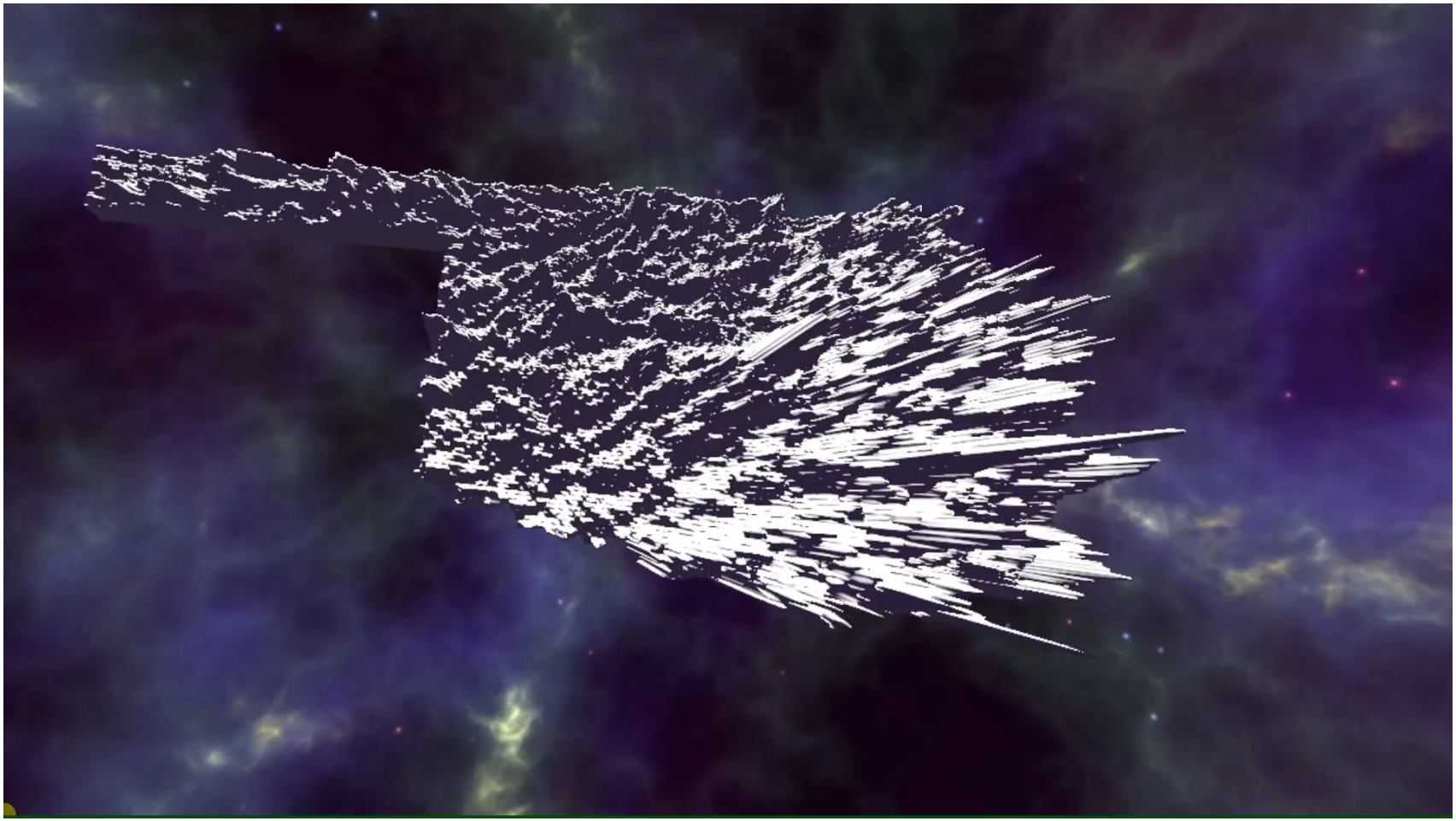
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Virtual Reality

- **Featuring the O.V.A.L. –** **O**klahoma **V**irtual **A**cademic **L**aboratory
- **Networked (distributed) analysis & manipulation of any 3D asset.**
- **Remotely upload 3D model from anywhere**

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Virtual Reality

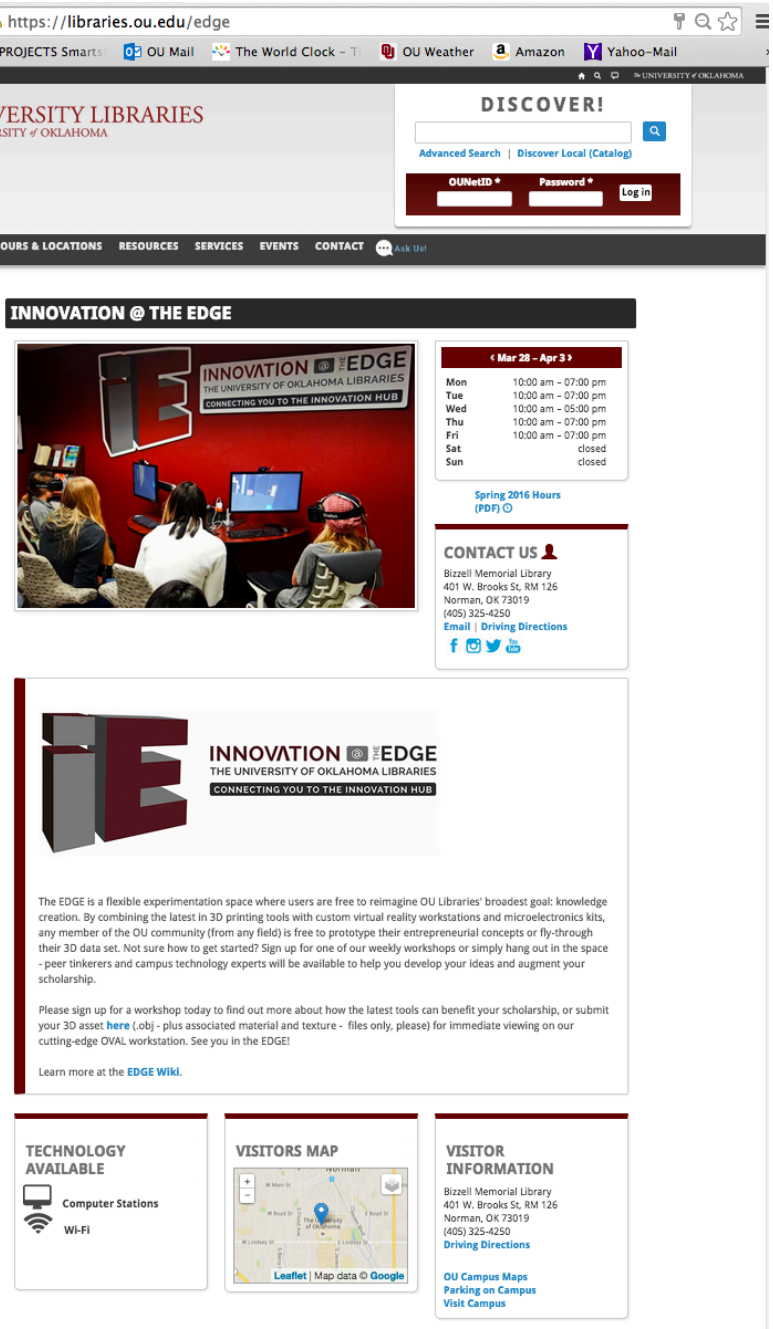


The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

A typical day at Innovation @ the Edge

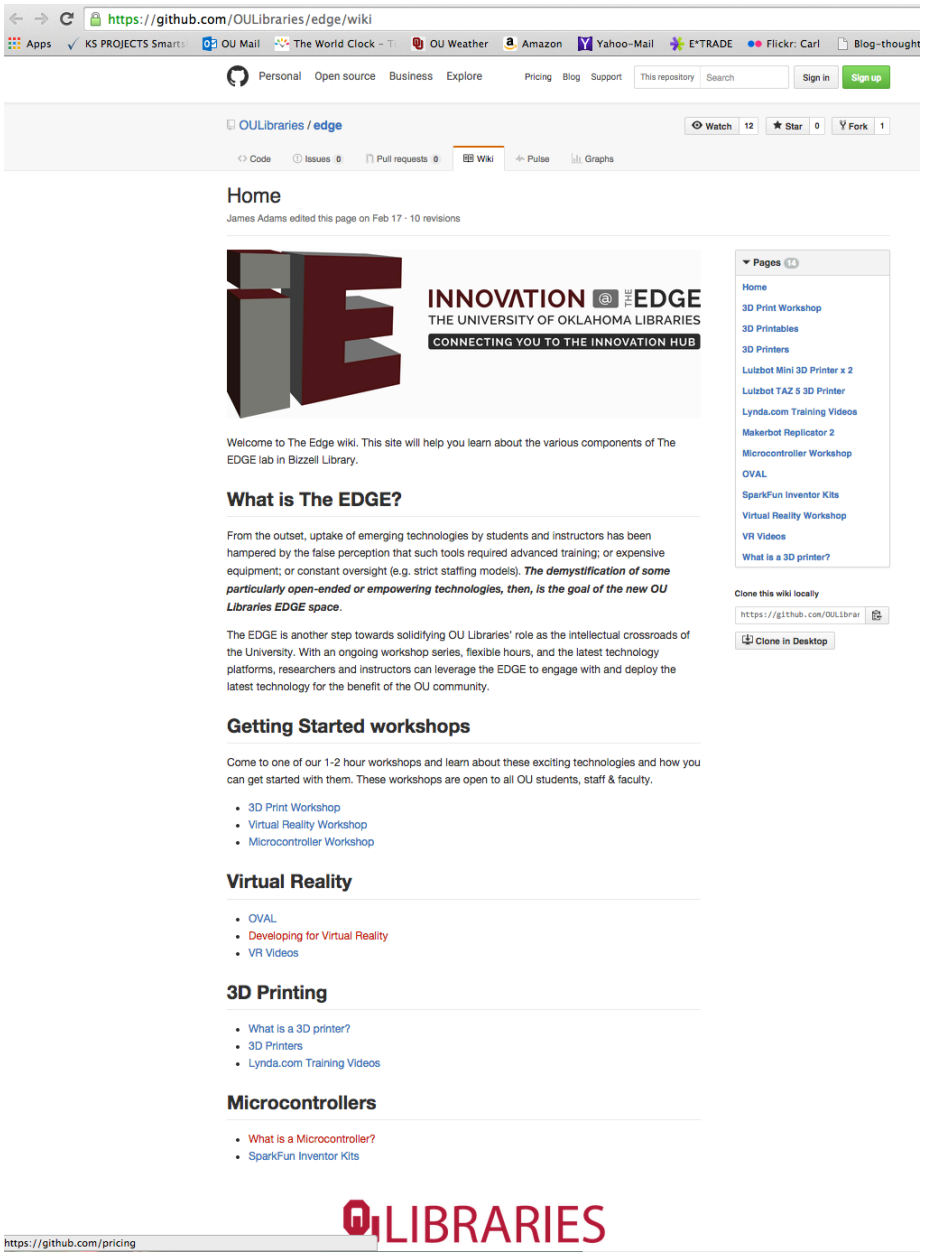
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Innovation @ the Edge Website



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Innovation @ the Edge GitHub



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

INNOVATION @ THE EDGE
THE UNIVERSITY OF OKLAHOMA LIBRARIES
CONNECTING YOU TO THE INNOVATION HUB

Virtual Reality partnerships already being formed across campus (and beyond) with professor(s) from:

- College of Architecture (installing OVAL)
- Chem/Bio-Chem
- NASA
- English
- Sam Noble Natural History Museum
- College of Law (installing OVAL)
- College of Engineering (planning on an OVAL)
- Innovation Hub (installing OVAL).. wait, what's an Innovation Hub?!?!

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

INNOVATION HUB

UNIVERSITY OF OKLAHOMA

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

INNOVATION HUB
UNIVERSITY OF OKLAHOMA

What is the Innovation Hub?

- Located in the Research Park
- 20K sq ft w/high-end equipment
- Separate/same… staffing as Innovation @ the Edge
- Open to all
- Peer innovators on staff/ faculty
- Experts available
- Collaborative Learning
- New methods of pedagogy, research and creativity

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

What is the Innovation Hub?

Run by multiple units/colleges acting as equal partners:

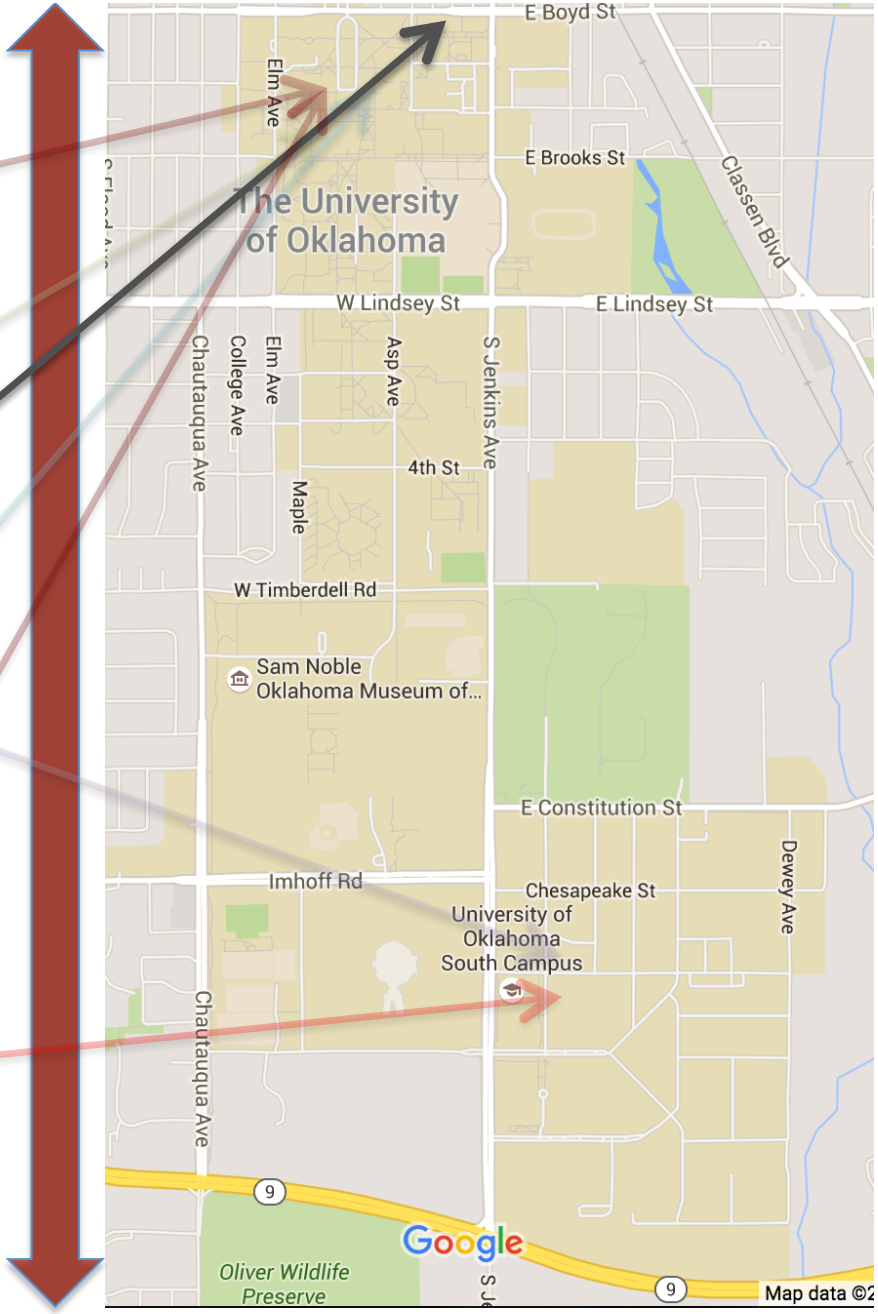
1. OU Libraries
2. OU Information Technology
3. Office of Vice President of Research
4. Price College of Business
5. Gallogly College of Engineering

Geographically Dispersed Units Involved

1. OU Libraries
2. OU Information Technology
3. Office of Vice President of Research
4. Price College of Business
5. Gallogly College of Engineering

2 Miles

- Innovation @ the Edge
- Innovation Hub

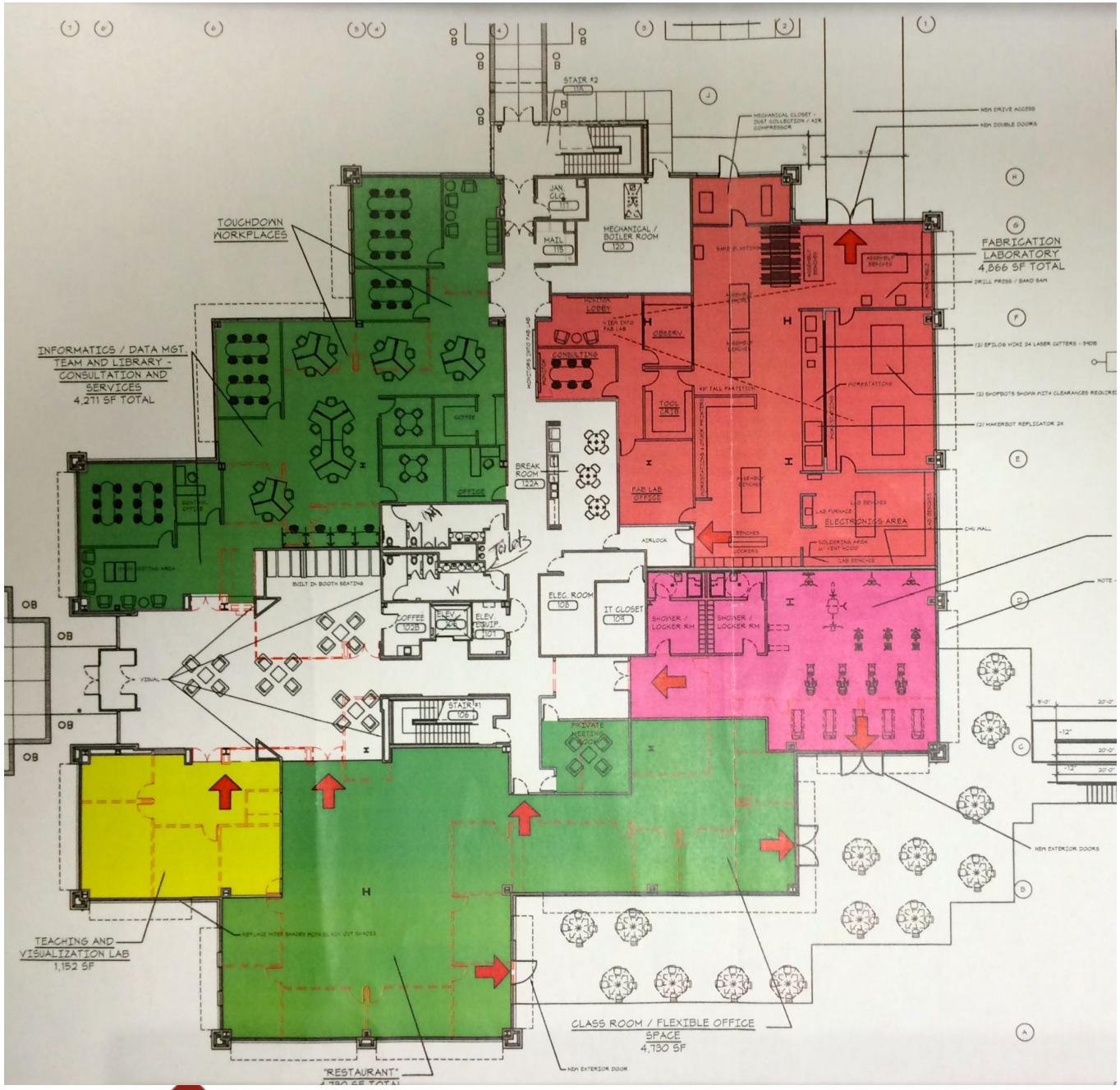


The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

INNOVATION HUB
UNIVERSITY OF OKLAHOMA

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

INNOVATION HUB
UNIVERSITY OF OKLAHOMA



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

INNOVATION HUB
UNIVERSITY OF OKLAHOMA

Opening August 2016

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

INNOVATION HUB
UNIVERSITY OF OKLAHOMA

Mobile unit we take to local events: Barnes and Noble Maker Space Day, Local Schools/Libraries & University Events

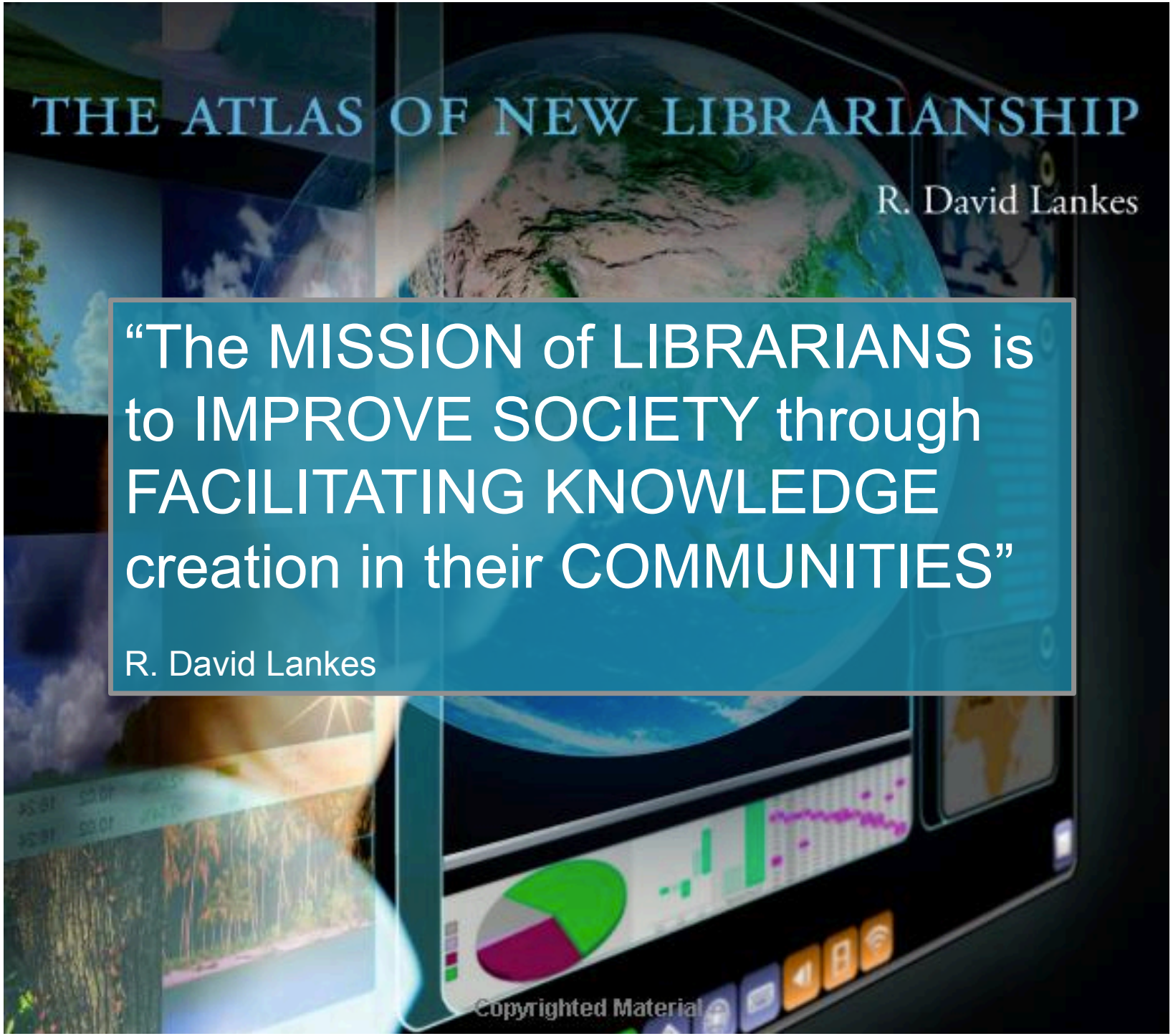
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

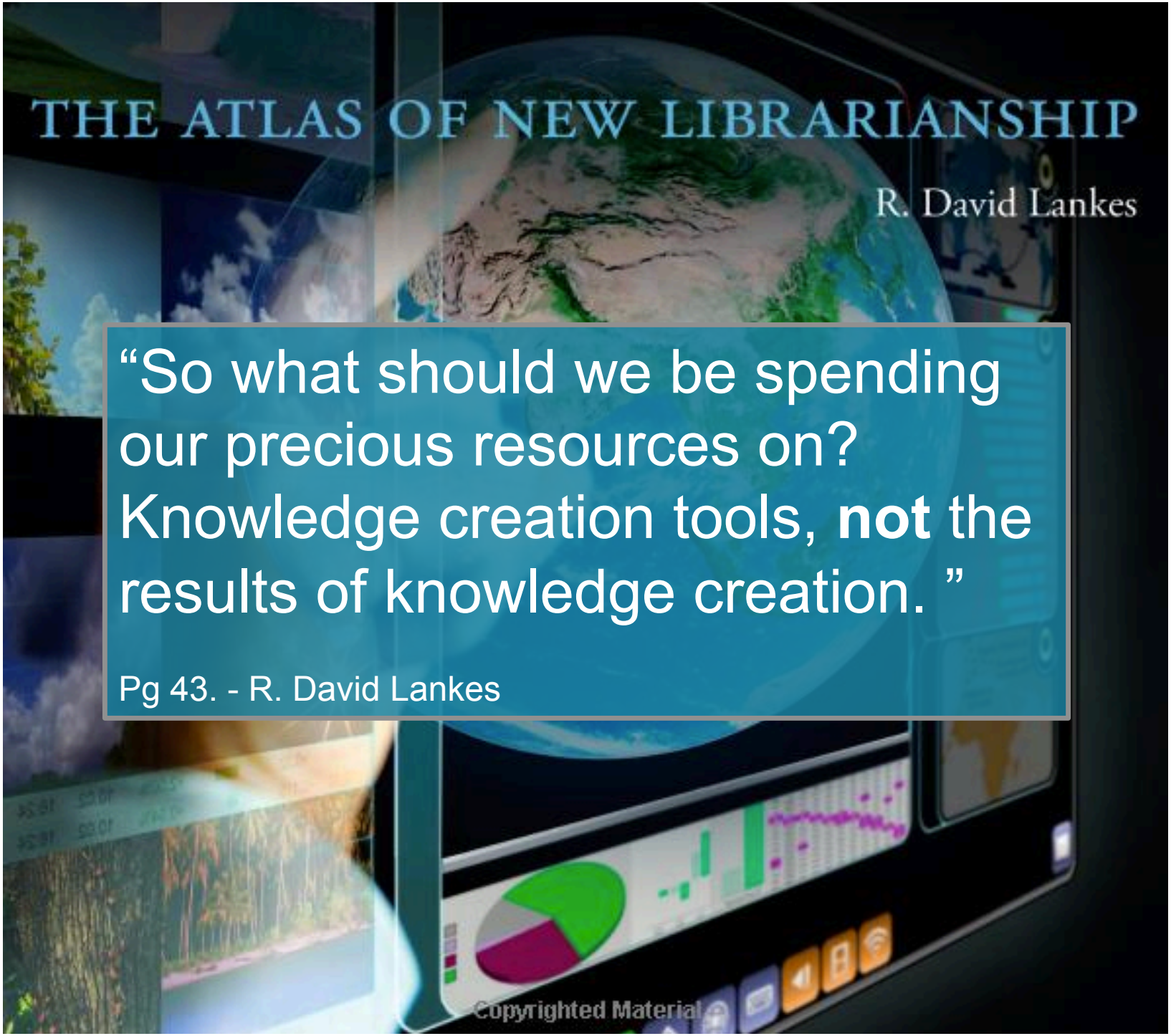
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation

- RFP issued - March 2013
- Responses received – April 2014
- Demo's conducted, staff/ faculty/student testing – April 2014
- Product selected – May 2013
- Contract signed – June 2013
- Implementation – Jun-Jul 2013
- Beta testing – August 2013
- Go live – August 19, 2013 (start of classes)

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu


THE ATLAS OF NEW LIBRARIANSHIP
R. David Lankes
“The MISSION of LIBRARIANS is to IMPROVE SOCIETY through FACILITATING KNOWLEDGE creation in their COMMUNITIES”
R. David Lankes
Copyrighted Material


THE ATLAS OF NEW LIBRARIANSHIP
R. David Lankes
“So what should we be spending our precious resources on? Knowledge creation tools, **not** the results of knowledge creation. ”
Pg 43. - R. David Lankes
Copyrighted Material

Discovery System: Implementation

"Knowing the relative strengths and weaknesses of our target audiences is the key…"

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation

"We are seeing a reconfiguration of functions in app/mobile environments, as functionality is dis-embedded from the fuller experience and re-embedded in smaller more discrete experiences."

Lorcan Dempsey, OCLC

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation

Remember….

We should support diverse learning styles "on average studies have shown roughly 29% have a visual preference, 34% auditory and 37% tactile”

SMITH (IN TRUNER,T & FROST, T. 2005, 146)

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation

Remember….

We're facing a "world where library content is interwoven into a variety of environments where end-users are searching for information."

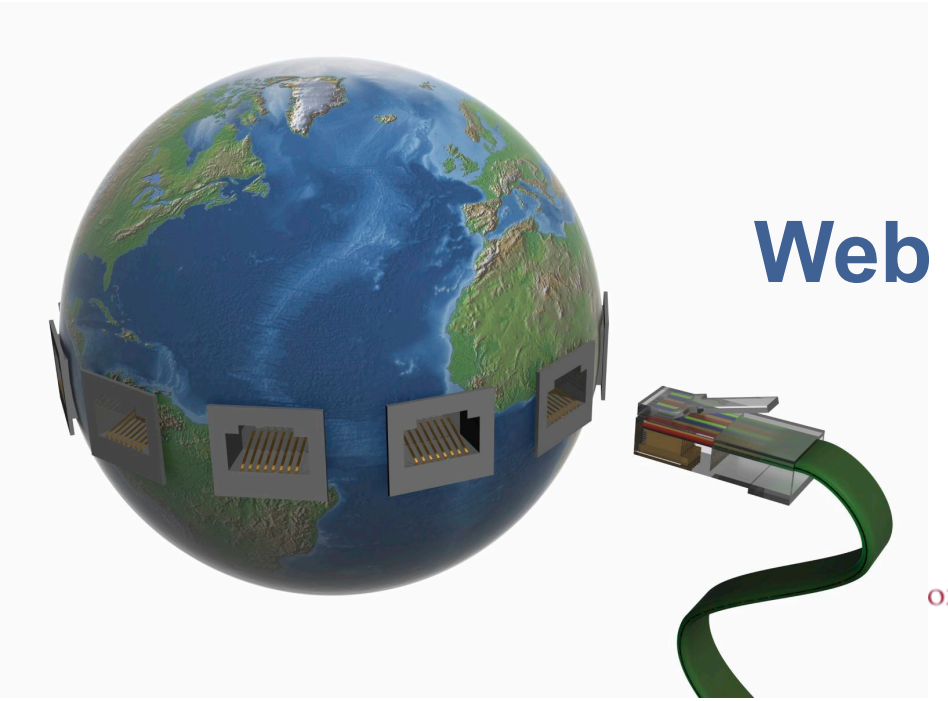
Lorcan Dempsey, OCLC

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation

So, remember…

Important to be able to completely replace the interface layer the user interacts with via a locally developed or 3rd party interface.



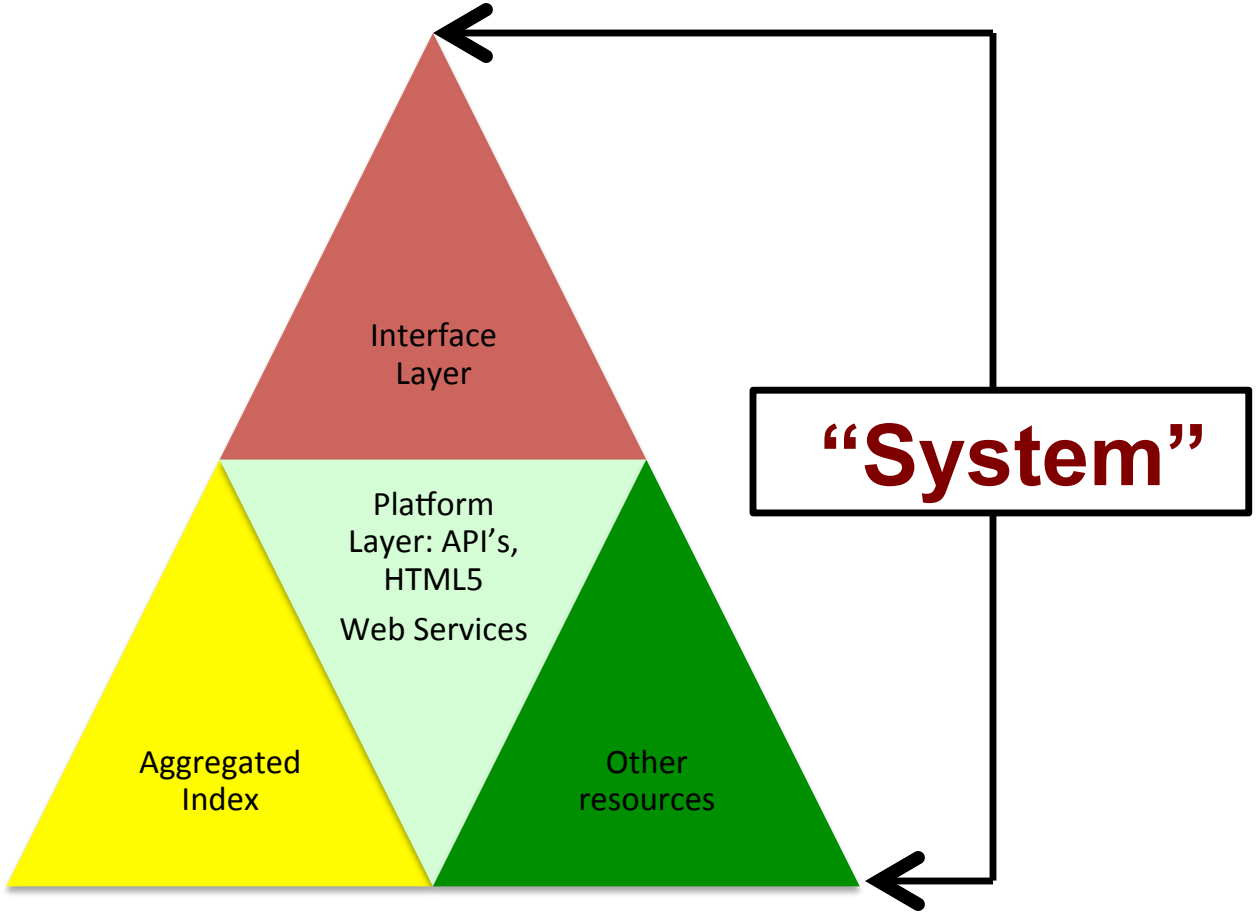
API's
HTML5
Web Services (REST)

Discovery System: Implementation

Because Discovery needs to happen in all these places:

Discovery System: Implementation

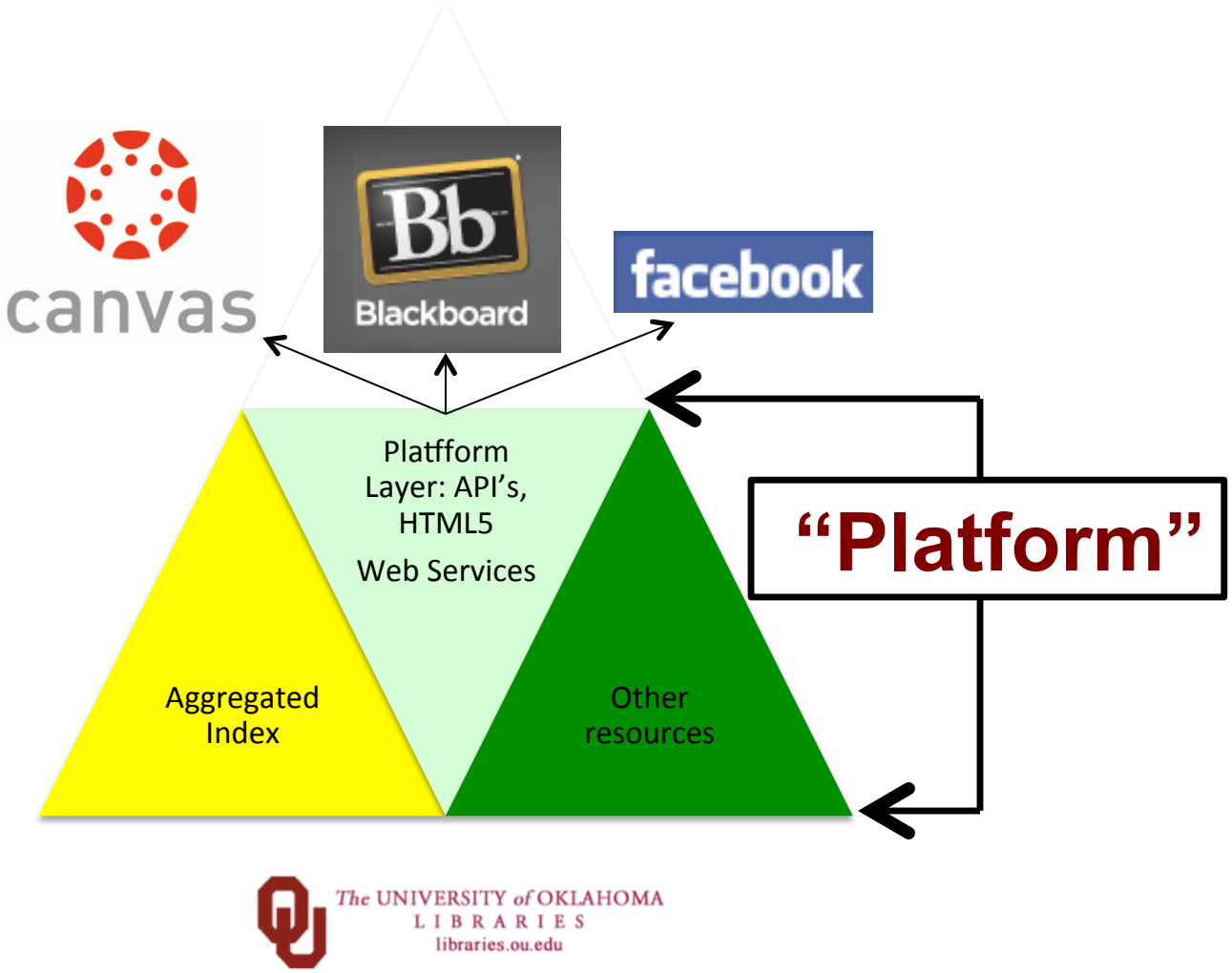
Important to be able to go from this:



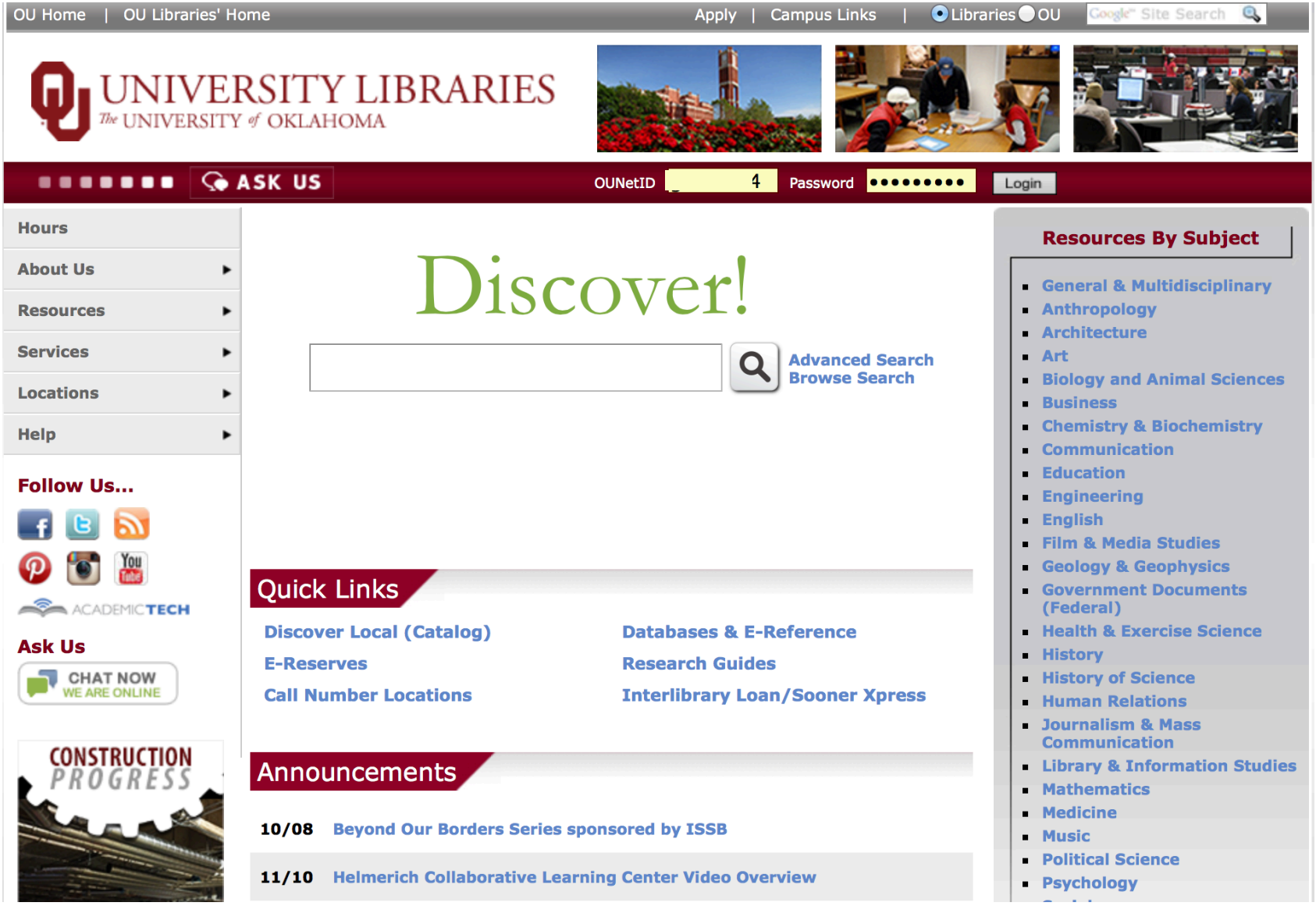
The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation

To this:



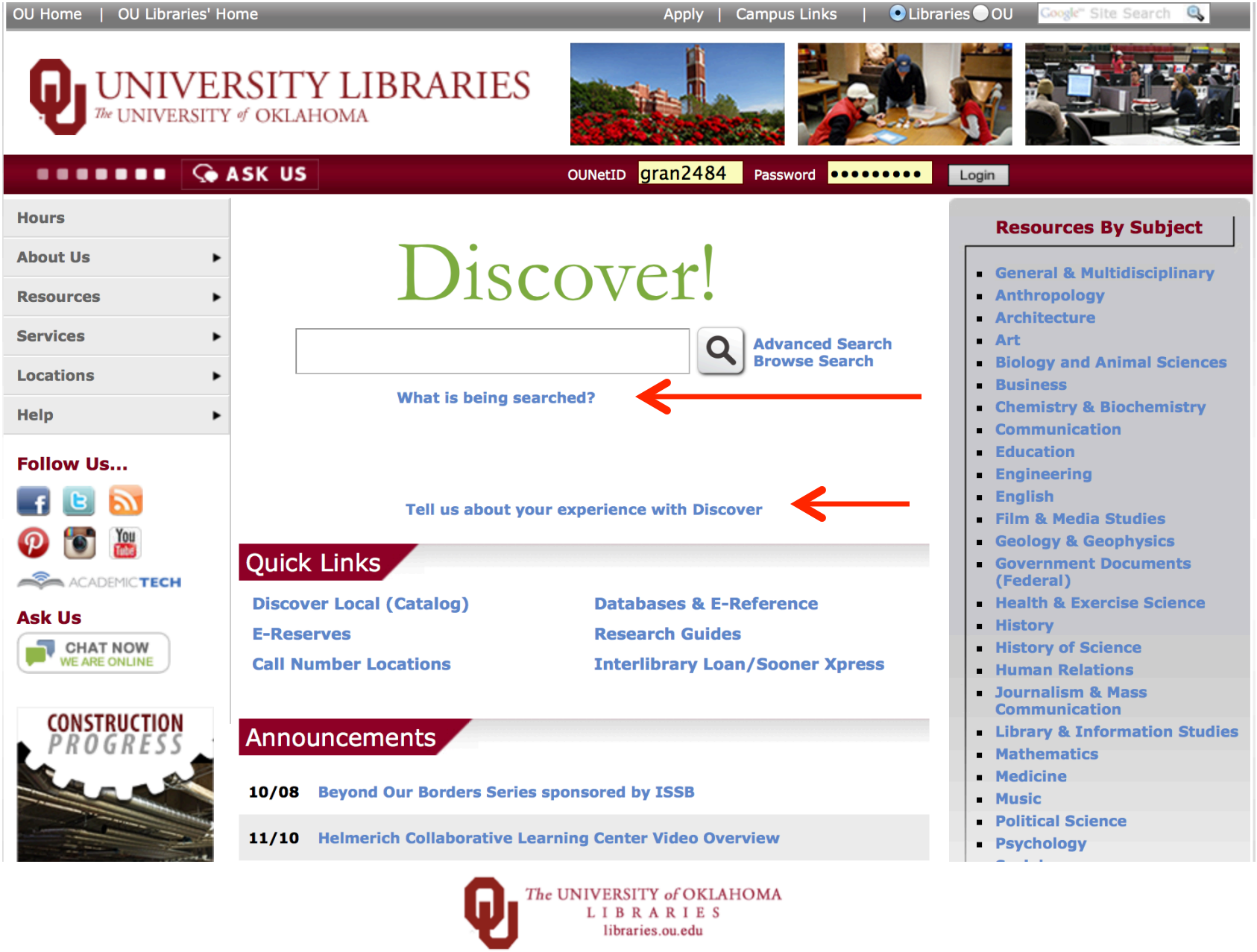
Discovery System: Implementation – V1.0



Discovery System: Implementation – V2.0

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V2.0



Discovery System: Implementation – V2.0

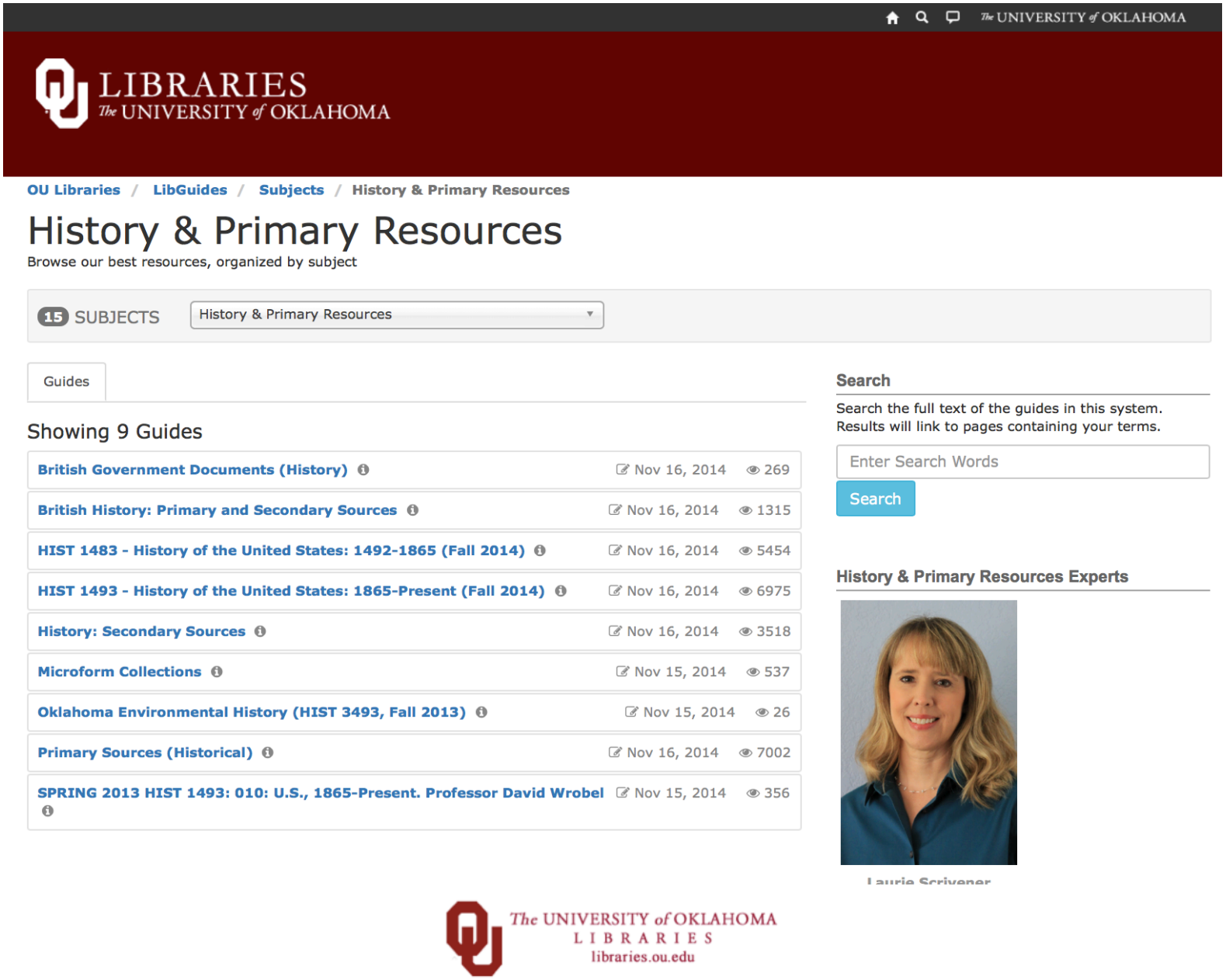
Discovery System: Implementation – V2.0

"If Libraries wish to be seen as expert, then their expertise must be visible" i.e. Discoverable information about services, people, expertise as well as collections.

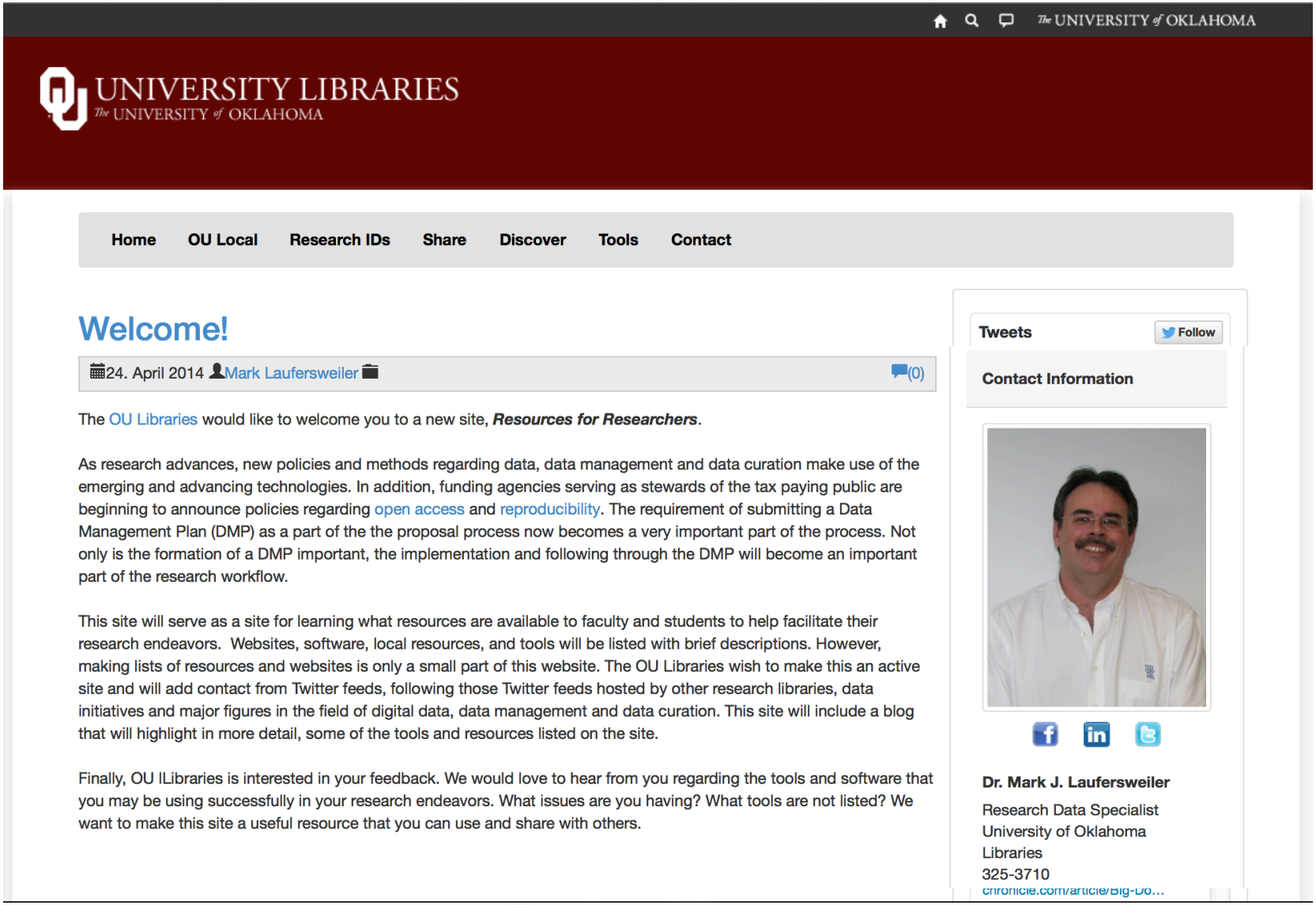
Lorcan Dempsey, OCLC

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

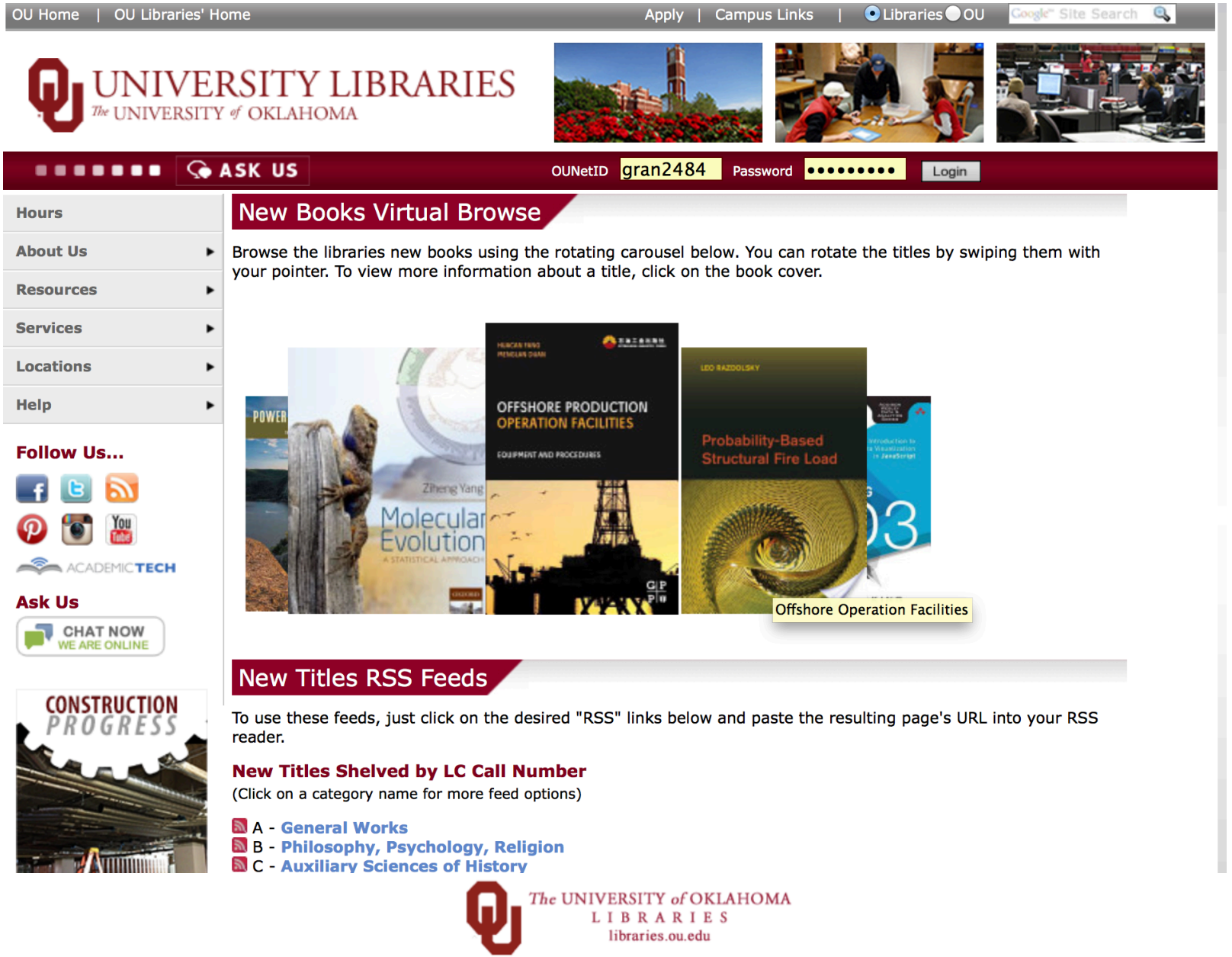
Discovery System: Implementation – V2.0



Discovery System: Implementation – V2.0



Discovery System: Implementation – V2.0



Discovery System: Implementation – V3.0

Discovery System: Implementation – V3.0

- LSP (Alma) purchased – February 2014
- Implementation – March-December, 2014
- Go live – January 6, 2015

Announced that old ILS-OPAC was going away….

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0

DUET CHARTER

Discover/Access User Experience Team

Purpose

The Discover/Access User Experience Team will help identify changes or configuration modifications needed for the OU Libraries' Discover tool and WorldCat so that the move away from a public facing catalog will transition as smoothly as possible. The team will do this by conducting usability studies on both the Discover tool and WorldCat to gain feedback from students, faculty, and staff from across campus. Based on this data, configuration recommendations will be made to best meet the needs of our users. The team will also help identify and create learning tools that will assist users in making this transition and create a broad communication plan to help disseminate information about the changes to the libraries' access tools. An internal working group will be utilized and will be composed of library personnel and external key stakeholders on the OU campus.

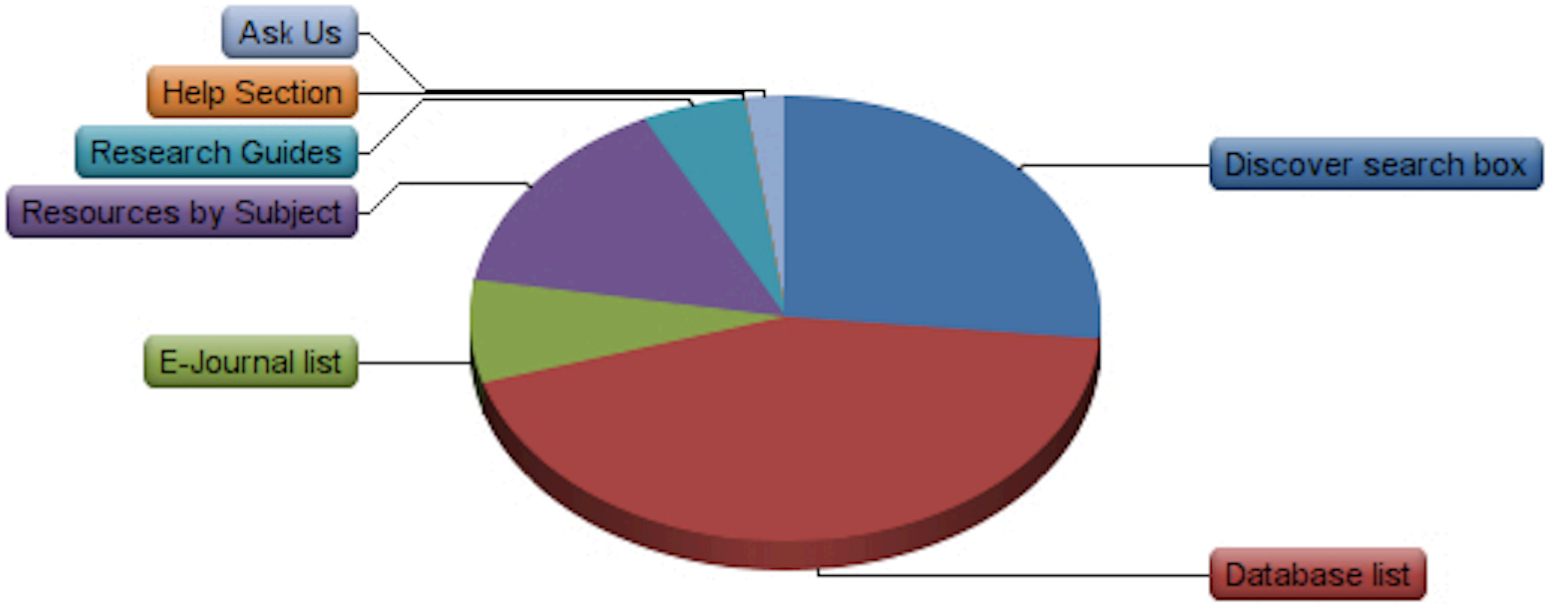
Deliverables & Deadlines

DELIVERABLES	DEADLINES
Usability assessment of Discover and WorldCat to identify configuration changes.	May 1, 2014
Presentation to public services personnel on changes to Discover based on Alma implementation (ILL, Reserves, catalog, etc.) and the use of WorldCat as an option.	May – June 2014
Based on the needs identified during usability assessment and internal demonstrations, create orientation guides and how-to tools for users.	June 30, 2014
Create communication pieces for the OU community about changes and new system.	August 1, 2014
Perform a usability assessment post-Alma implementation to determine results.	August 2014

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0

2. When using the libraries' website to perform research, where is the first place you start and why?



THE UNIVERSITY OF OKLAHOMA
LIBRARIES
libraries.ou.edu

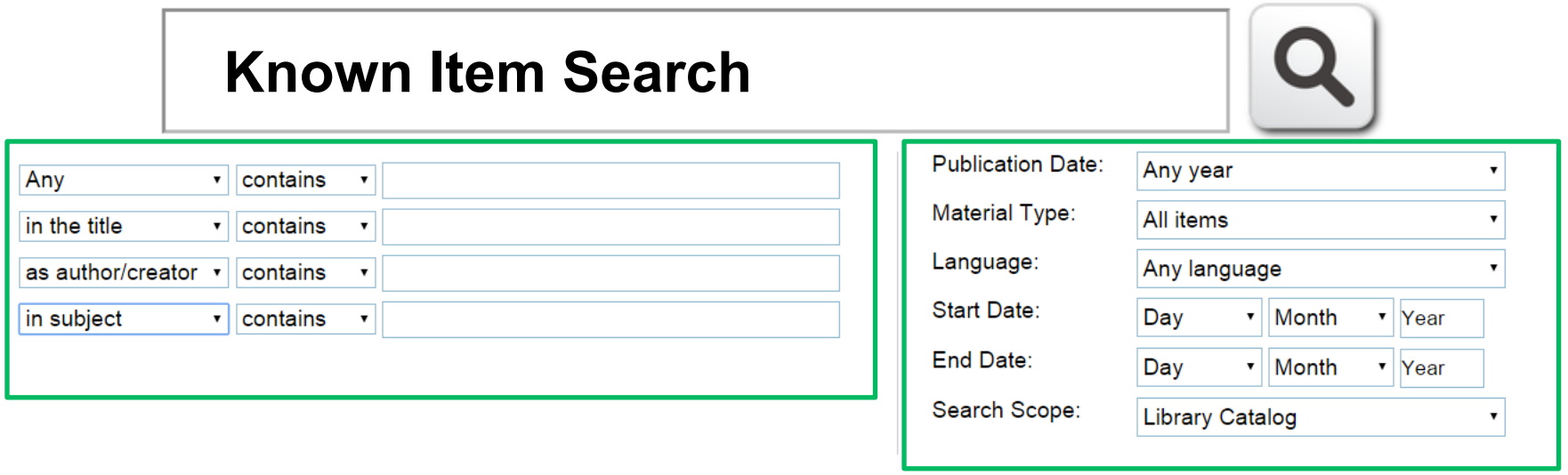
Discovery System: Implementation – V3.0

Usability Studies: Task-oriented observation

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

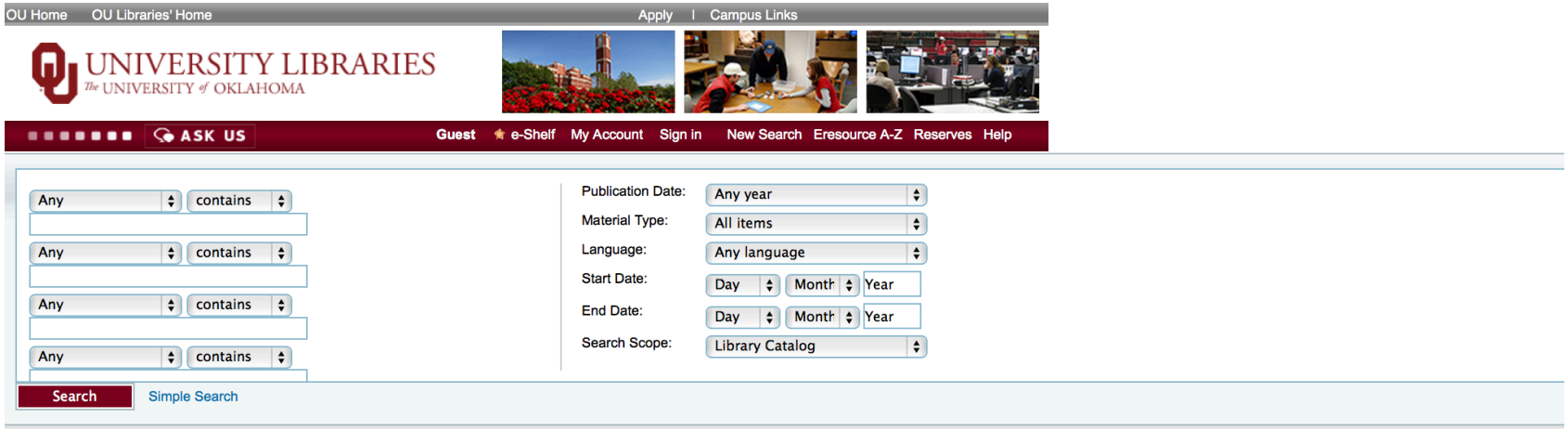
Discovery System: Implementation – V3.0

Developing Discover Local



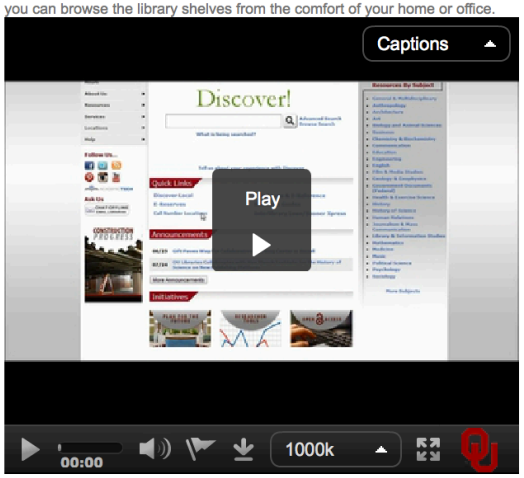
The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0



Discover Local

Discover Local is the new way to search for materials within University Libraries physical and electronic collections. It is the same content held within our catalog with a new search interface with the same features you have come to appreciate in the Discover! system such as facets for refining search results and an e-Shelf to save results. New features include a visual virtual browse so you can browse the library shelves from the comfort of your home or office.

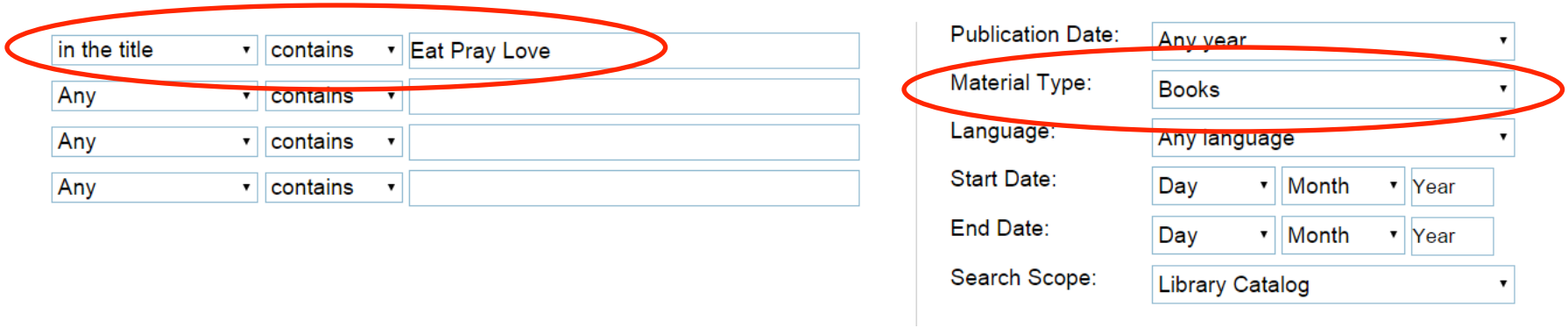


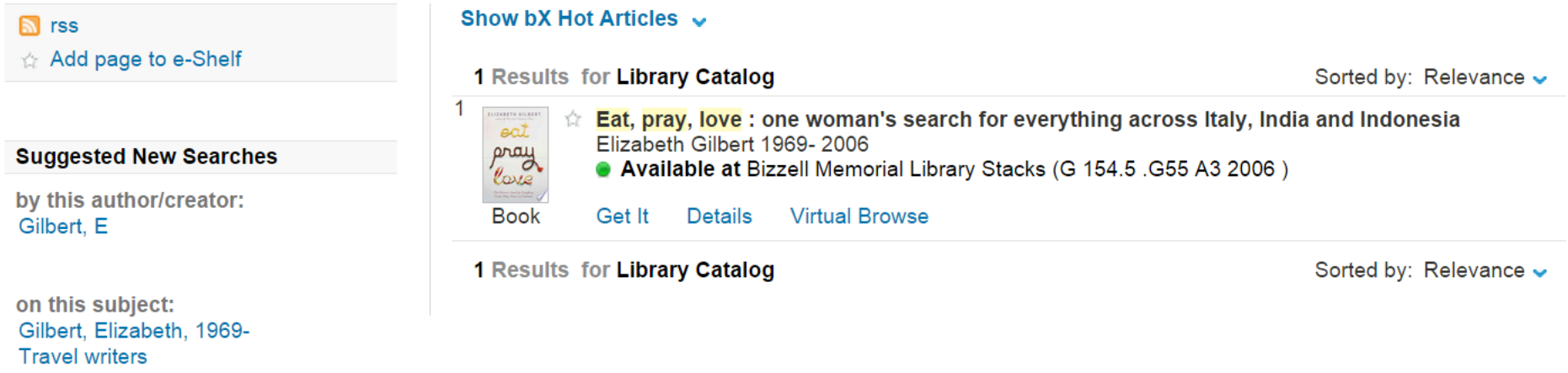
New Books

Browse new books using our Virtual Book Browse. This feature shows you new books across all subjects and libraries, and includes e-books as well as physical books located within the libraries.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0





The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

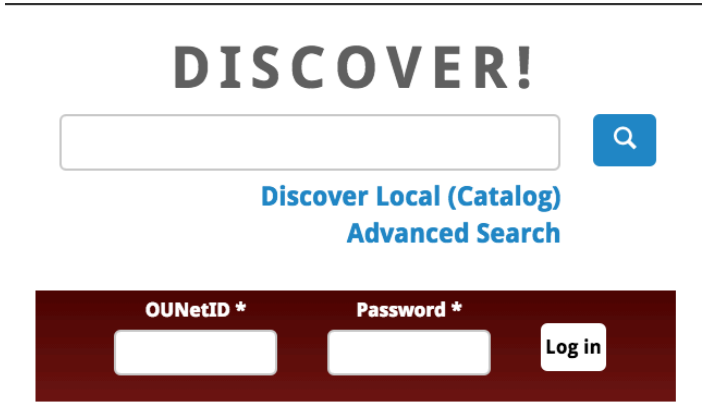
Discovery System: Implementation – V3.0

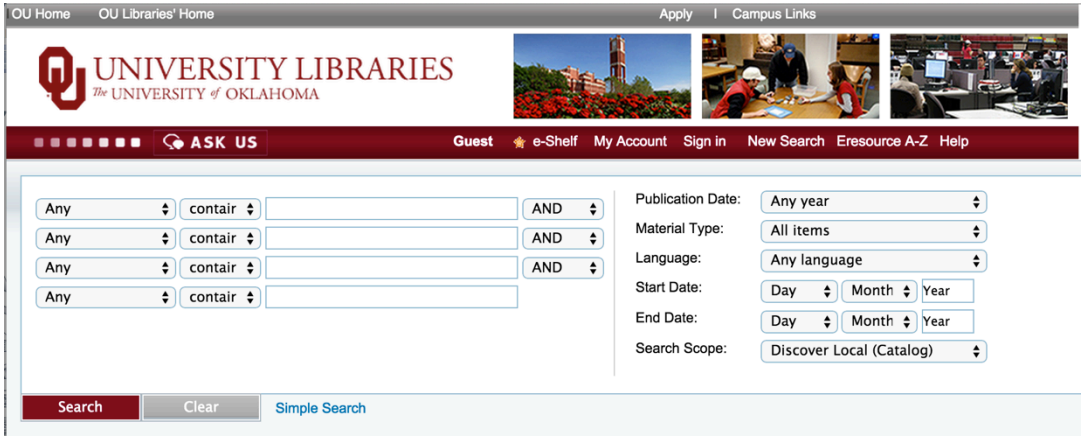
DISCOVER

- Broad Topic Searches
- Articles, Book Reviews, etc
- Option to search outside holdings

DISCOVER LOCAL

- Known Item Searches
- Books, Journals, etc.
- Items owned by OU Libraries



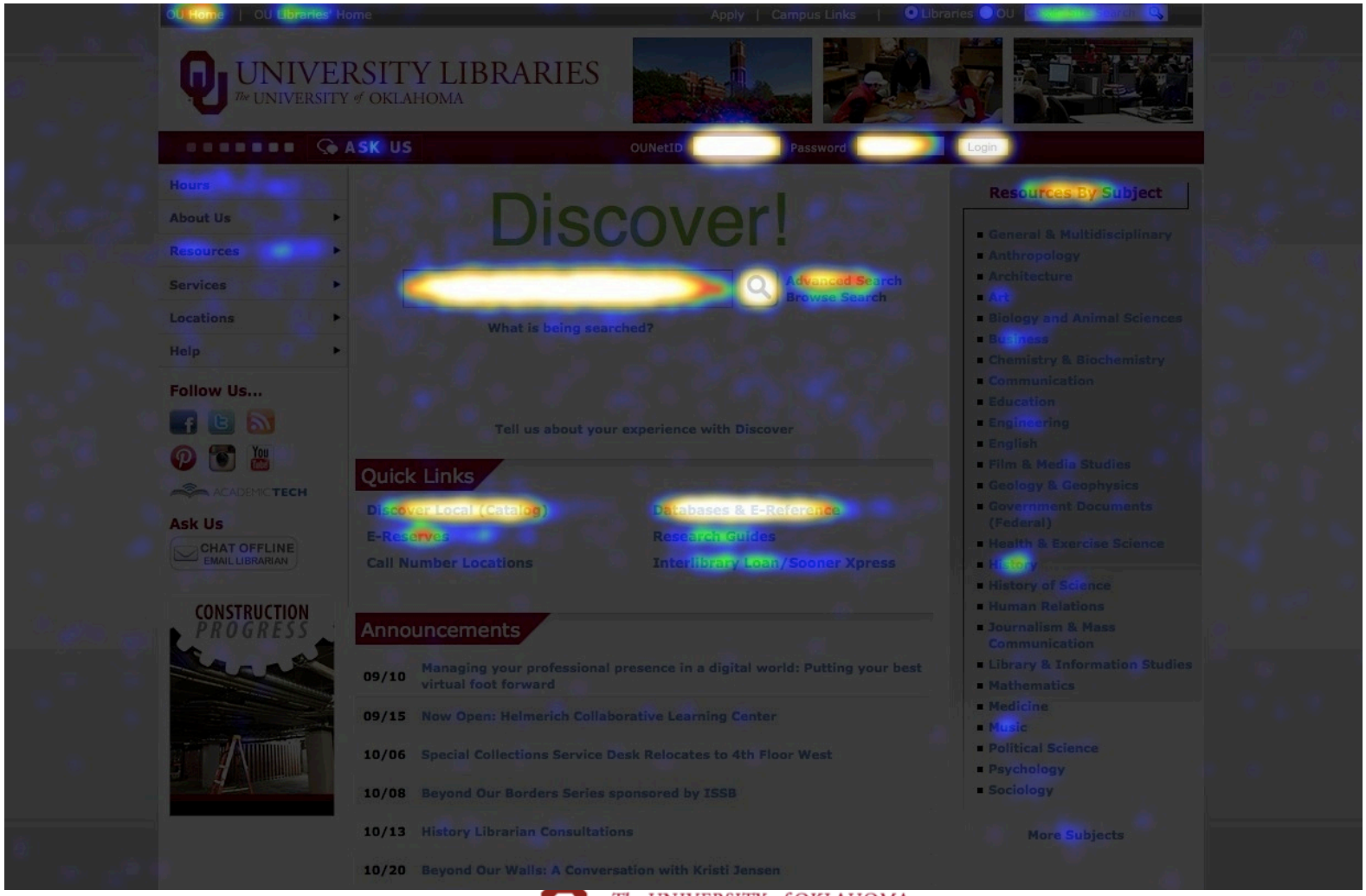


The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0

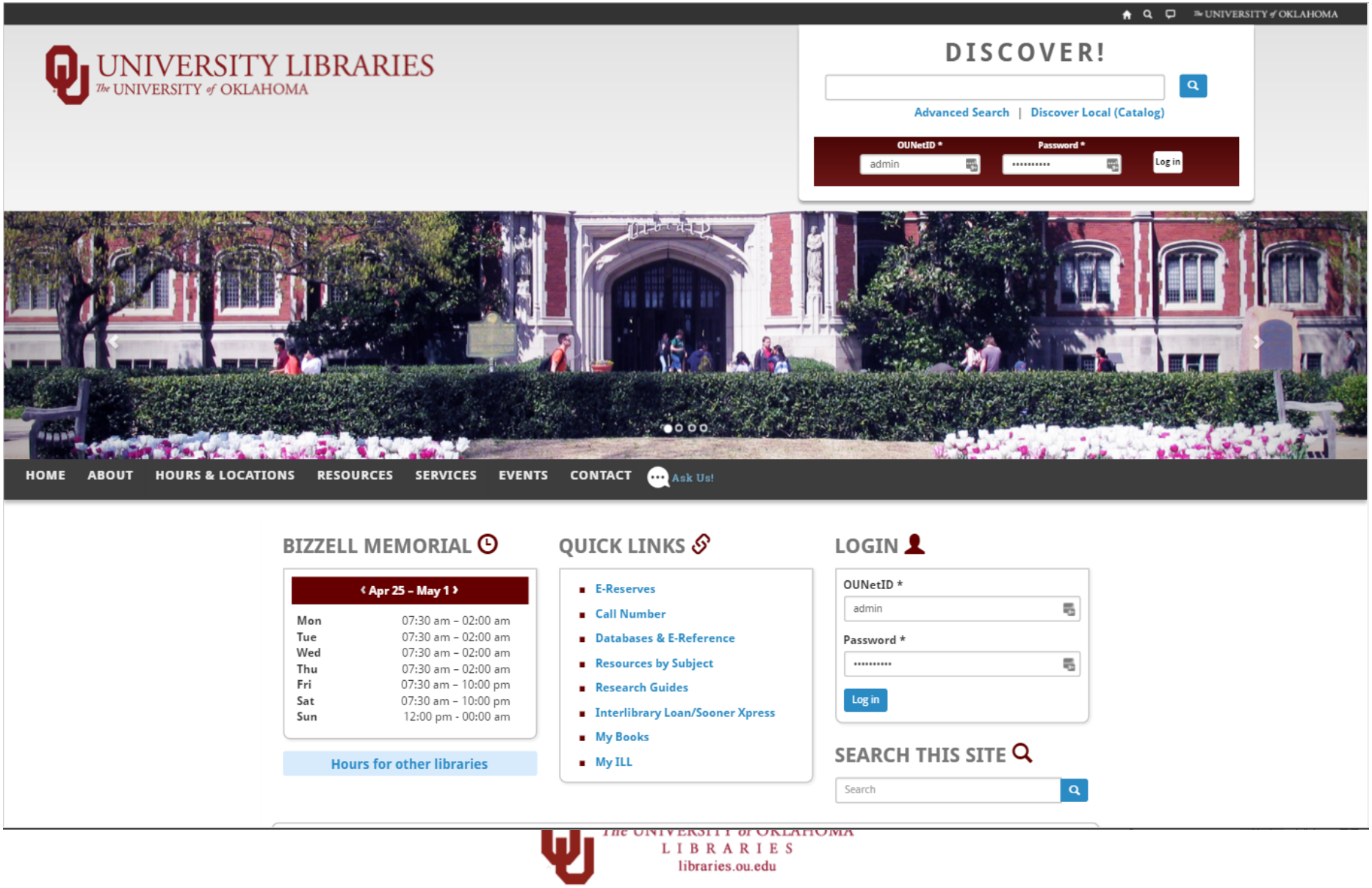
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

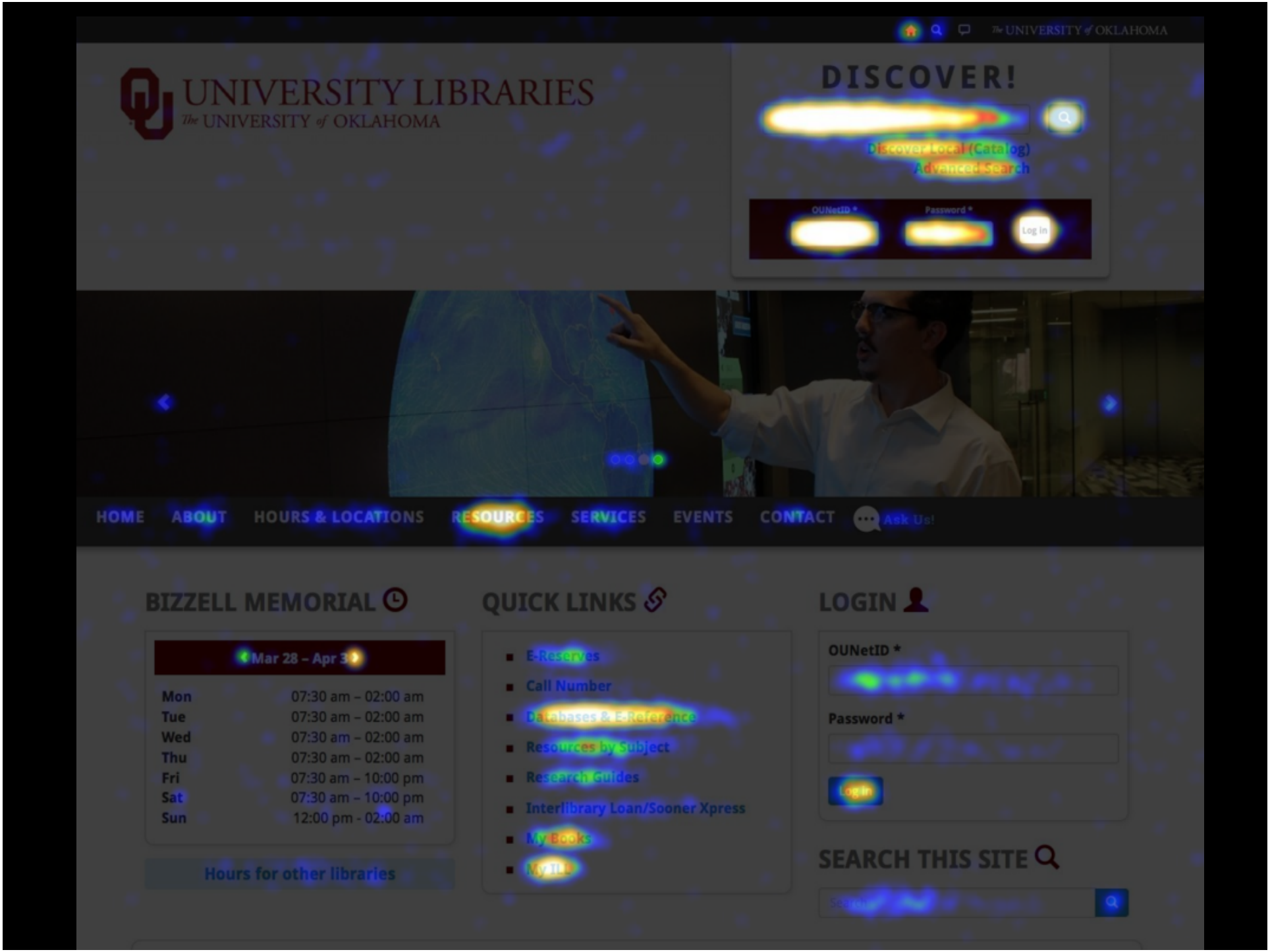
Discovery System: Implementation – V3.0



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V3.0




The UNIVERSITY of OKLAHOMA
UNIVERSITY LIBRARIES
The UNIVERSITY of OKLAHOMA
DISCOVER!
Discover Local (Catalog)
Advanced Search
OUNetID *
Password *
Log in
HOME
ABOUT
HOURS & LOCATIONS
RESOURCES
SERVICES
EVENTS
CONTACT
Ask Us!
BIZZELL MEMORIAL
Mar 28 – Apr 3
Mon 07:30 am – 02:00 am
Tue 07:30 am – 02:00 am
Wed 07:30 am – 02:00 am
Thu 07:30 am – 02:00 am
Fri 07:30 am – 10:00 pm
Sat 07:30 am – 10:00 pm
Sun 12:00 pm - 02:00 am
Hours for other libraries
QUICK LINKS
E-Reserves
Call Number
Databases & E-Reference
Resources by Subject
Research Guides
Interlibrary Loan/Sooner Xpress
My Books
LOGIN
OUNetID *
Password *
Log in
SEARCH THIS SITE

Discovery System: Implementation – V4.0

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

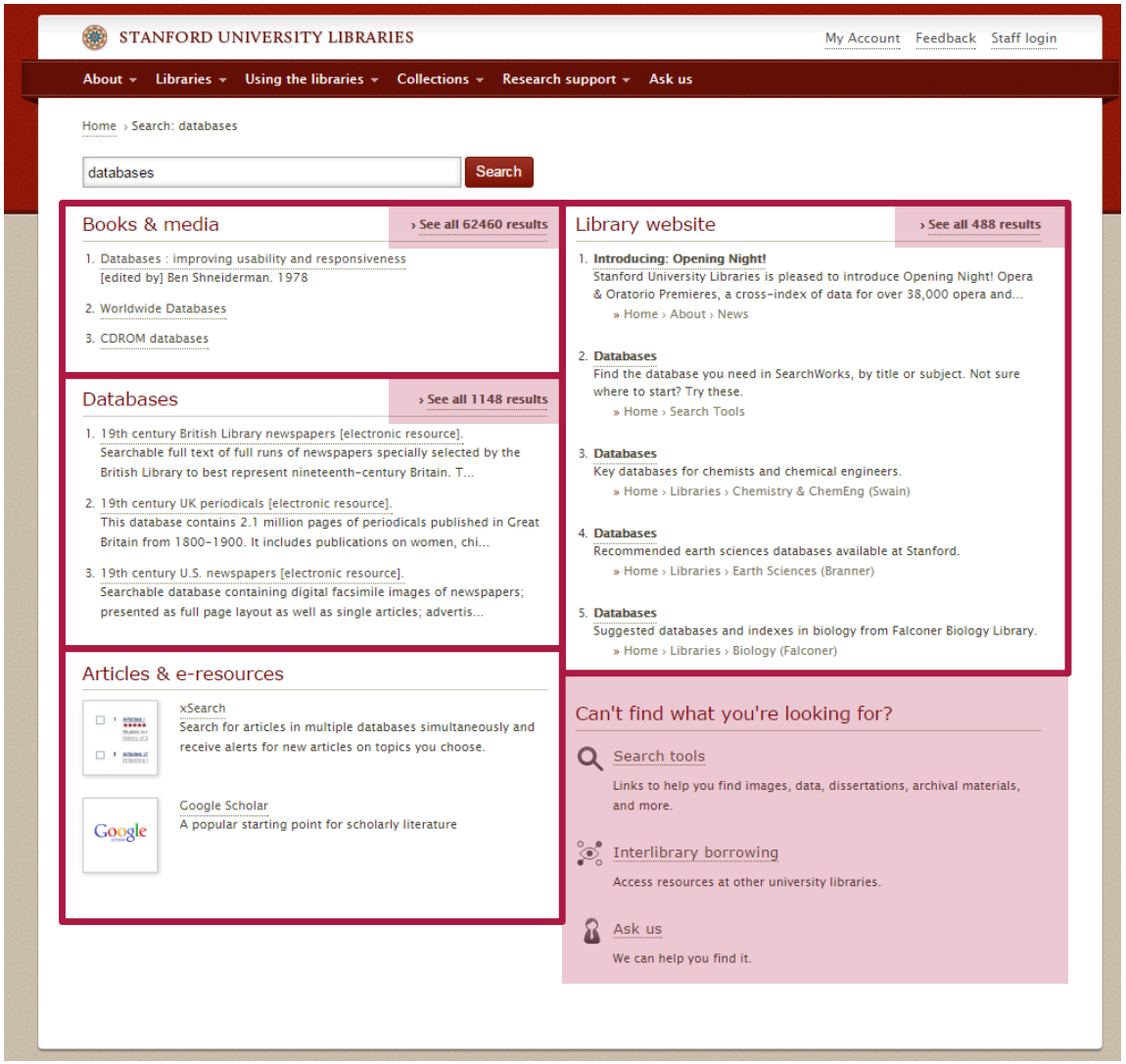
Discovery System: Implementation – V4.0

Libraries One Search

Discover
Main Site
Other sites (Galileo)
LibGuides

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V4.0



Features

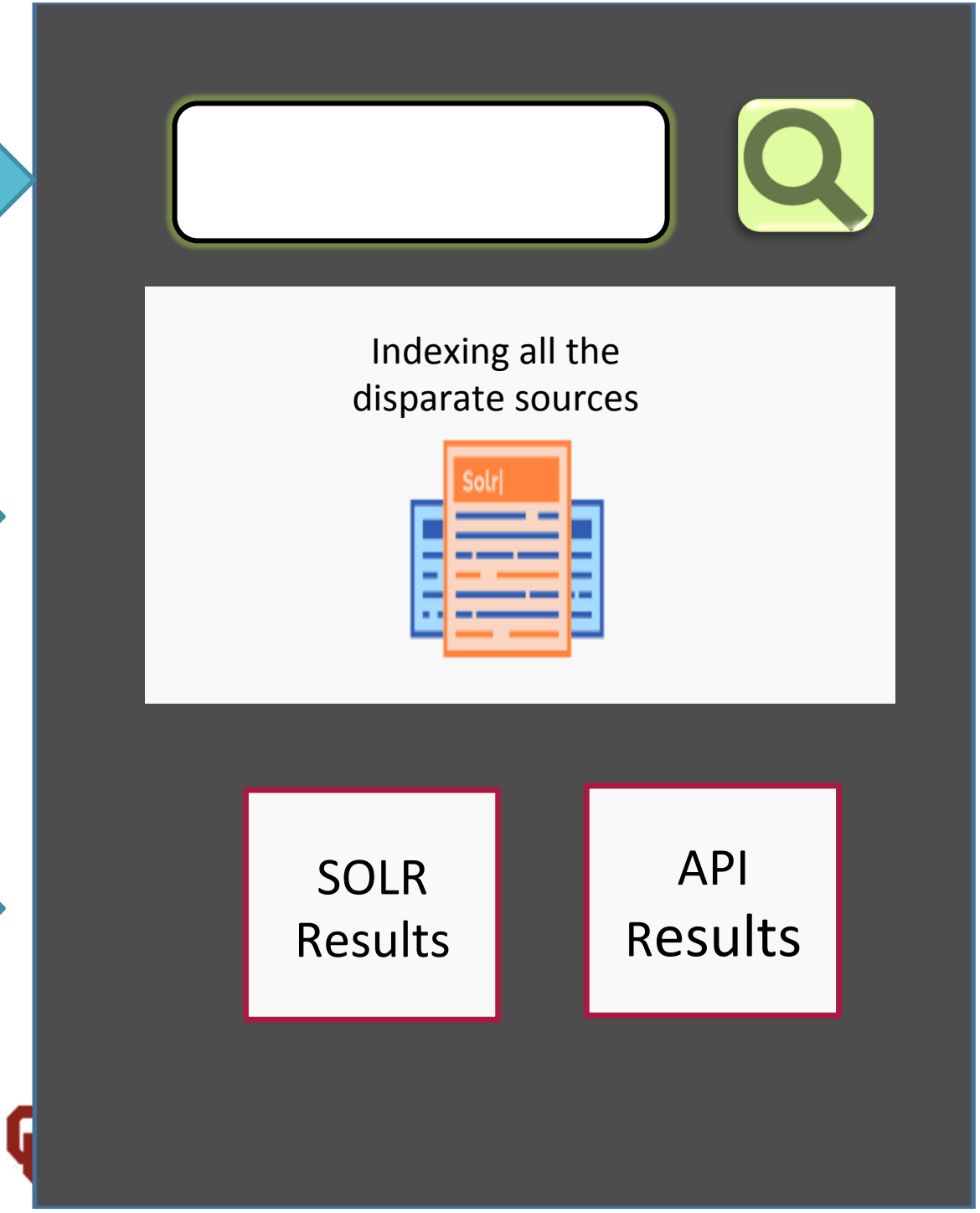
- **Bento Result**: To help with result clutter we suggest a bento box to organize results. Separating Books, Articles, Databases, Website
- **Help:** Integrated resources for getting help with search results.
- **See All:** To keep from results getting too long, we limit results to 5 with a SEE ALL link at top of box.

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

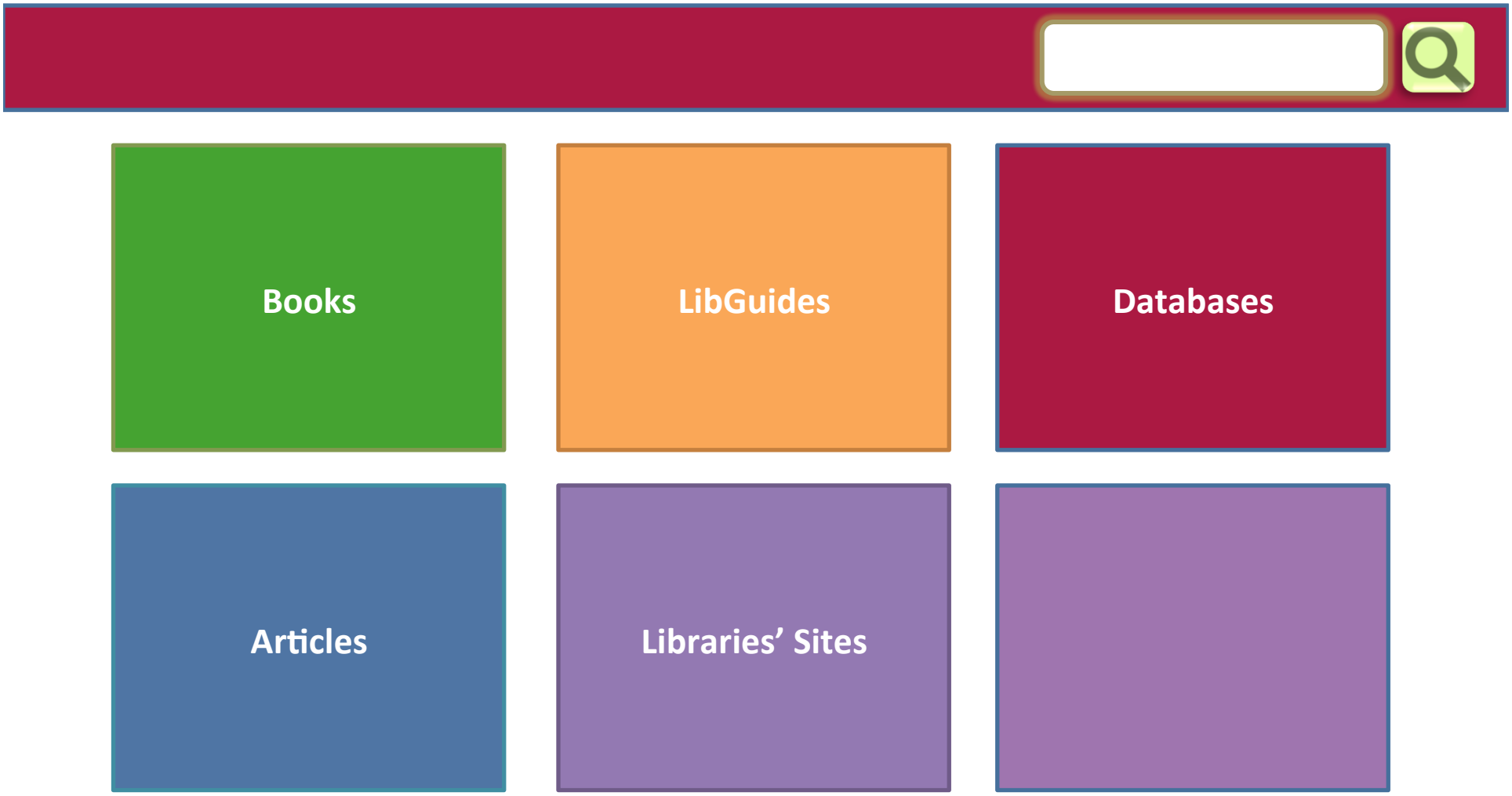
Drupal Custom Search Module

SOLR Indexing Layer

Drupal Display



Discovery System: Implementation – V4.0



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V??

Discovery System: Implementation – V??

A Knowledge Creation Platform; What is it?

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V??

Knowledge Creation Platforms

If you want to know more, see this issue of this Open Access journal:

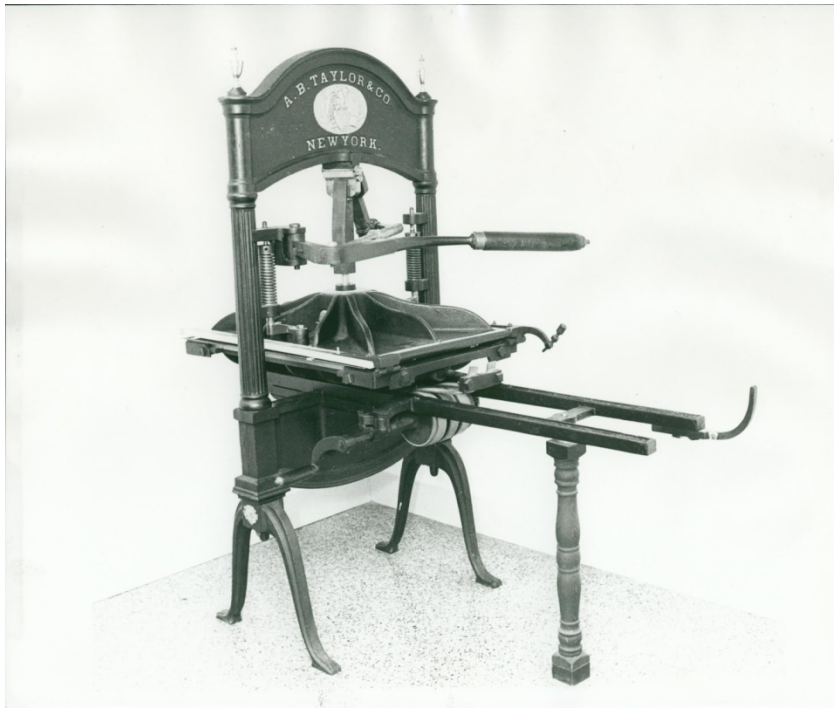
027.7 Zeitschrift für Bibliotheks kultur

At this URL, you'll find a copy of this published article on the subject:

http://www.0277.ch/ojs/index.php/cdrs_0277/article/view/32/62

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

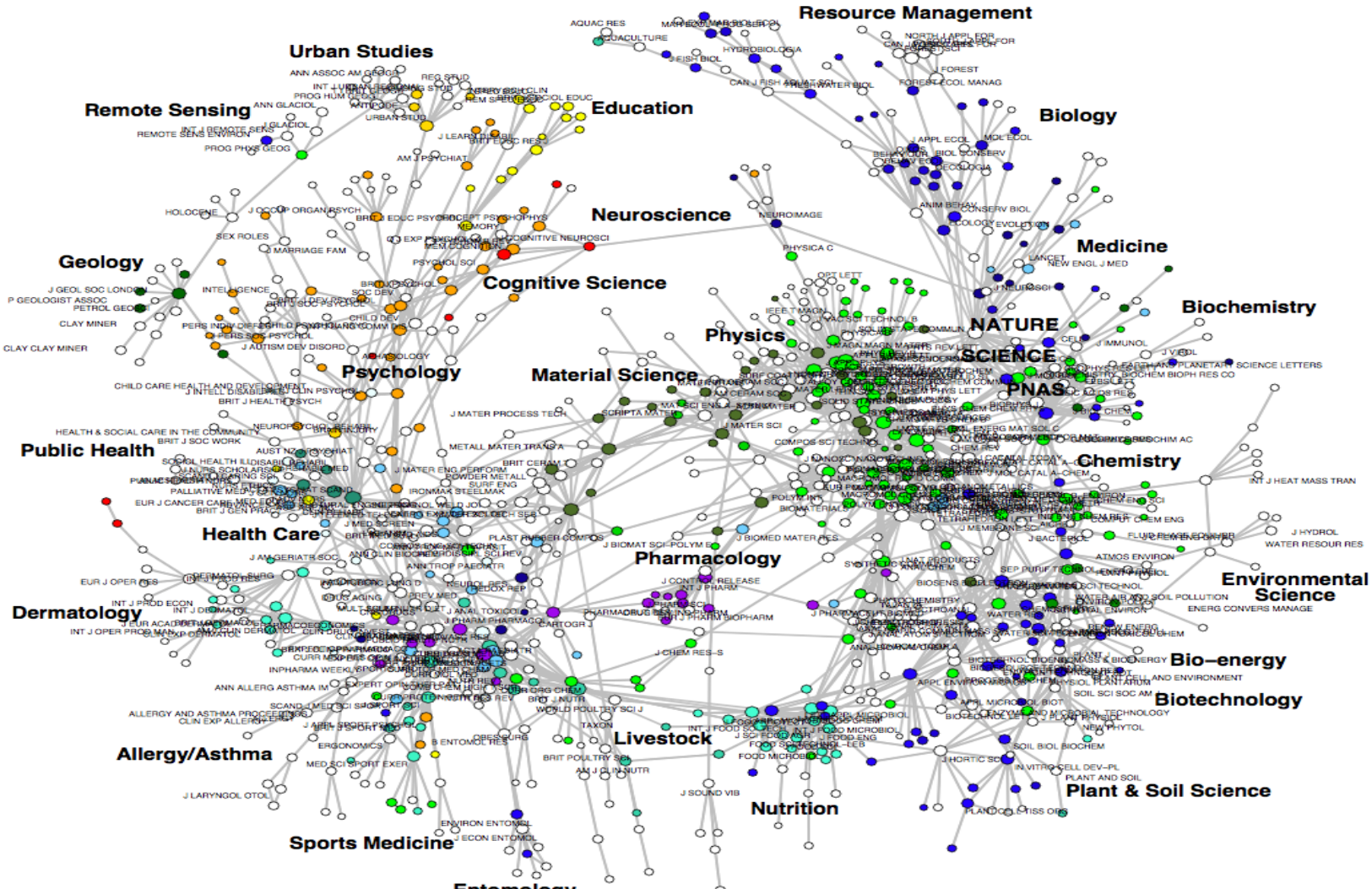
Discovery System: Implementation – V??



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

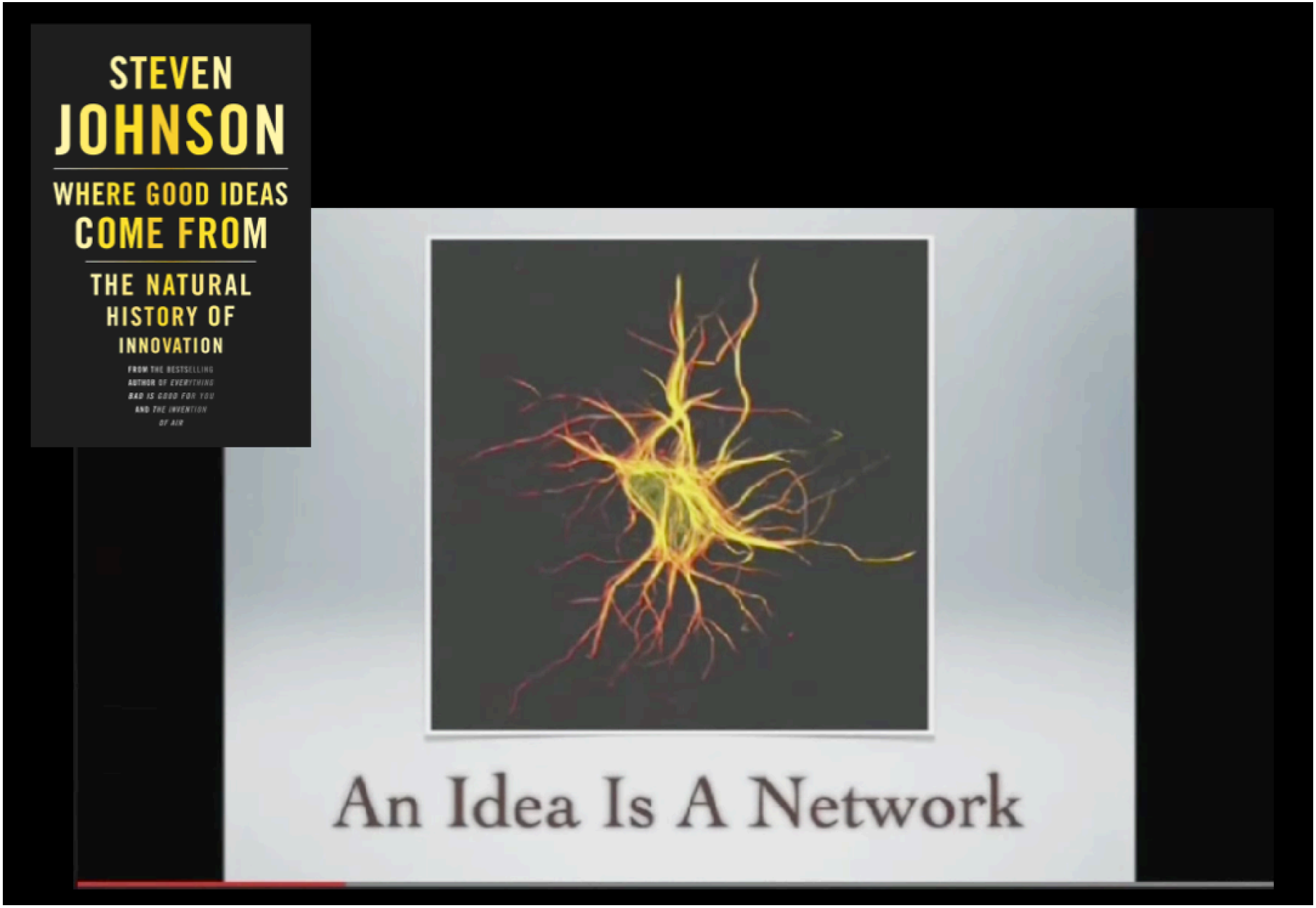
Discovery System: Implementation – V??

Making use of visible knowledge networks

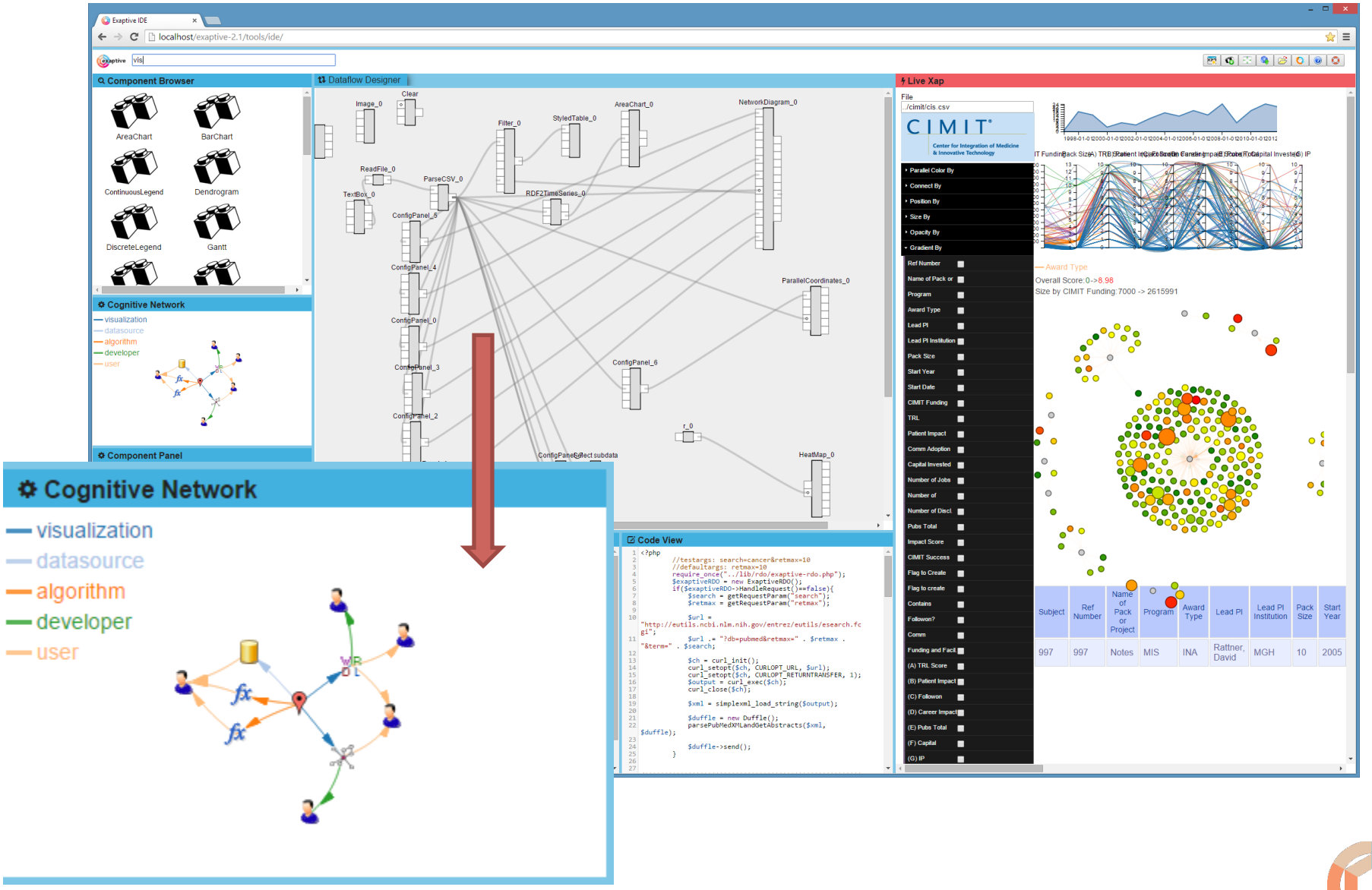


http://www.nytimes.com/imagepages/2009/03/13/science/16visual-popup.html

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu


STEVEN
JOHNSON
WHERE GOOD IDEAS COME FROM
THE NATURAL HISTORY OF INNOVATION
FROM THE BESTSELLING AUTHOR OF EVERYTHING BAD IS GOOD FOR YOU AND THE INVENTION OF AIR
An Idea Is A Network
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Discovery System: Implementation – V??



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

exaptive

Discovery System: Implementation – V??

"These technologies will change the nature of search from people seeking out the information they need to the information seeking them out when they need it, without having to think much about it in advance."

Steven Bell, Associate University Librarian for Research and Instructional Services, Temple University Libraries

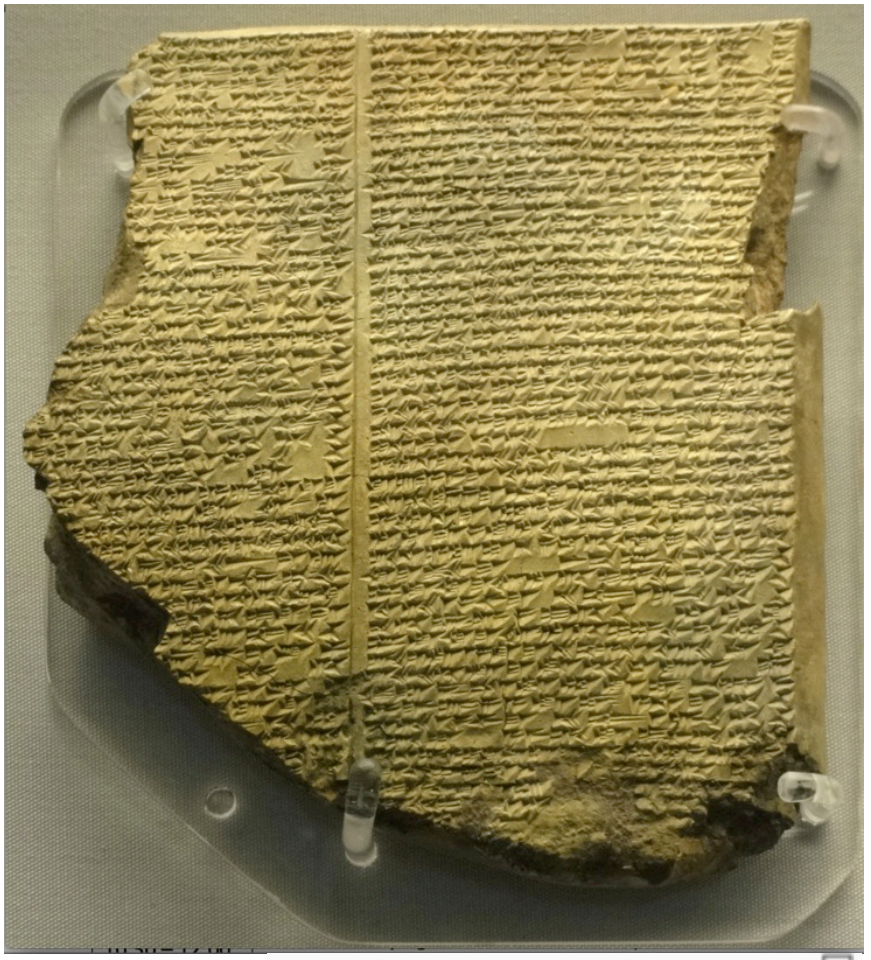
The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Let's face it….

We've been at this for awhile (since 2600 BC by most estimates).

And as a result….



Tablet from the Library of Ashurbanipal containing part of the Epic of Gilgamesh

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Why did we need a Library Service Platform? ILS of the past

Resulting in (to name just a few) -

a. Cumbersome workarounds

b. Inflexibility

c. Duplicate data and efforts

d. Duplicate workflows

Vendor Support (too thin because…)

a. Repetitive Upgrades

b. Aging hardware at customer sites

c. Costly training

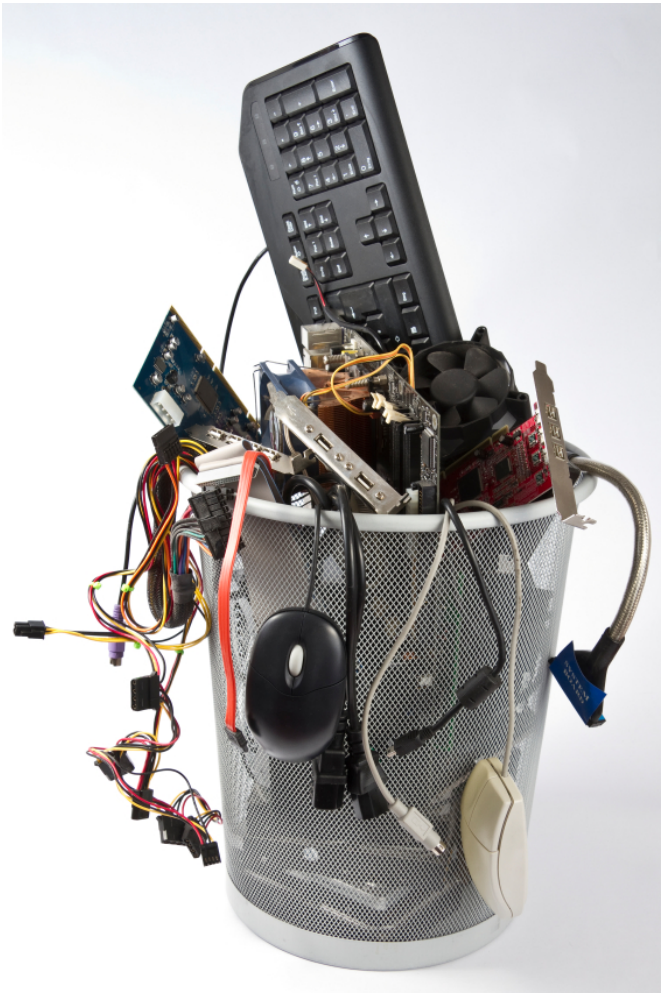
Why did we need a Library Service Platform?
ILS of the past

"We are interpreting a global world with a system built for local landscapes."

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

ILS of the past…



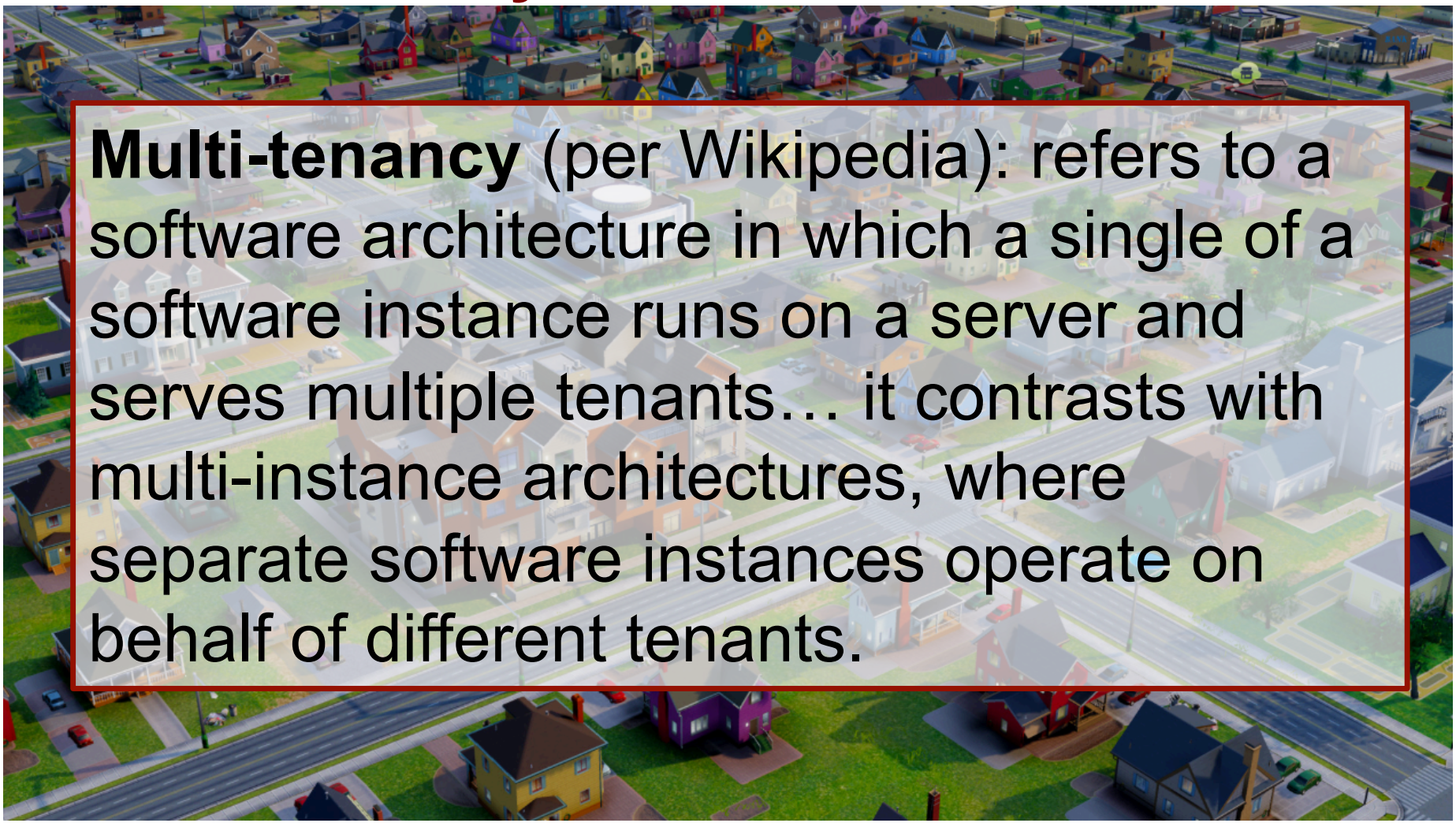
The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

- Key advantages of an LSP over an ILS:
  - Rapid elasticity.
  - Measured service.
  - Multi-tenancy.
  - Rewritten from ground up to optimize new workflows.
  - Greater global collaboration/cooperation possibilities.
  - Analytics, both local and global, with possibility for transactional.
  - Frees your IT people up to do higher value work for end-users (won't need to hire as many people in the future)
  - No need to:
    - Buying/Scheduling/Upgrading hardware
    - Waiting for or performing software upgrades
    - Worrying about disaster recovery

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Why does multi-tenancy matter?

- Make software updates once, NOT to each instance of the software
- Rapid updates (vendor does it for you)
- On-demand provisioning / rapid elasticity
- Measured service (buy what you need)

Why did we need a Library Service Platform?

Why does multi-tenancy matter? – cont'd

- Security (better)
- Costs (more efficient)
- Reporting/analytic data (power of data comes from quantity of data)

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Data as a Service

means..

Build once, used by many

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Focus on the **Unique** …
(the institutional)

… and integrate the **Common**
(global information)

LIBRARIES
libraries.ou.edu

Why did we need a Library Service Platform?

Ownership → Access

Selection → Fulfillment

Just-in-case → Just-in-time

Cataloging → Description

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Why is a Library Service Platform so important?

As LSP's gain momentum:

- Data stores grow and become more valuable.
- Will enable deep analysis and forecasting.
- Transactional analytics

Quality of library service will divide into:

- Very high-performance
- Everybody else

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Why is a Library Service Platform so important?

Using Library Service Platforms, libraries will go from being reactive and generic service organizations to proactive and highly personalized service organizations.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Our choice in a Library Service Platform?

Alma

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

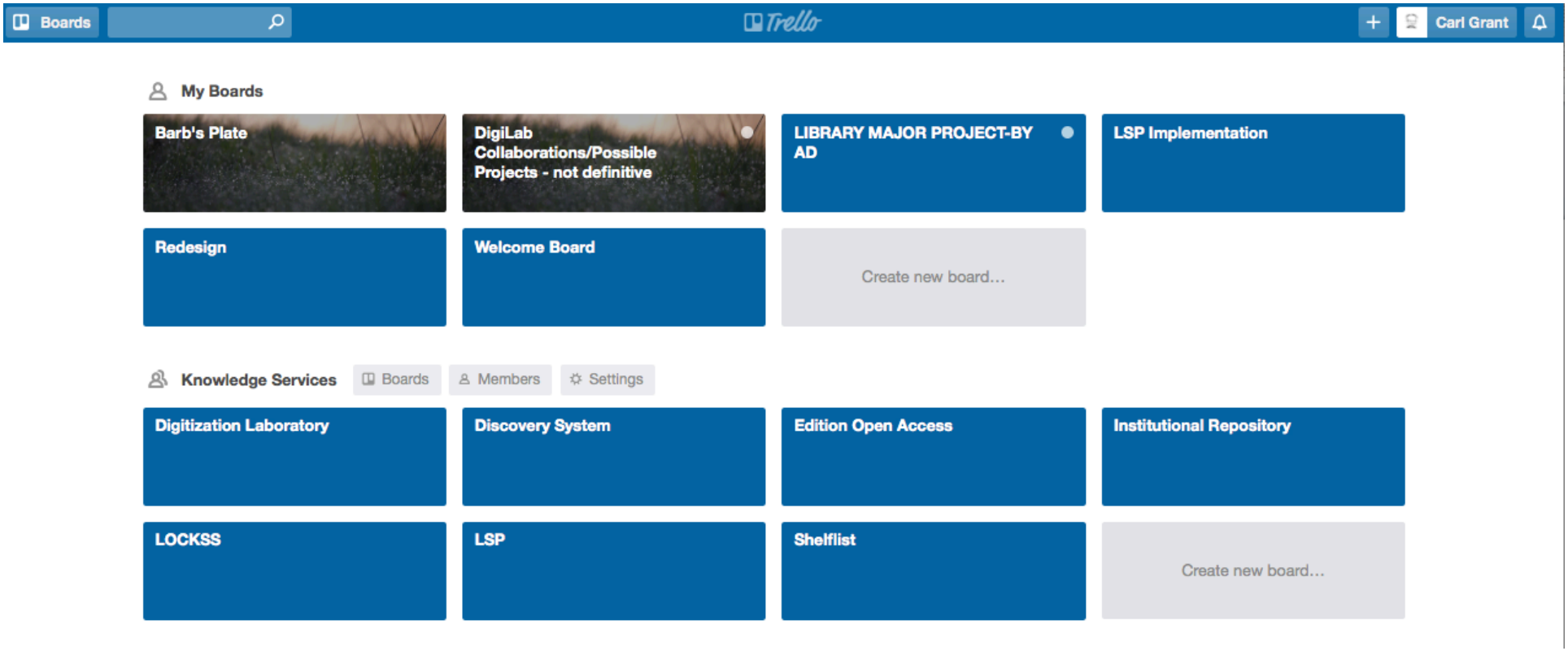
Justifying a Library Service Platform?

- It is **NOT** about saving money
- It **IS** about being more efficient & effective with the money you have.
  - Repurposing staff positions
  - Offering new services
  - Refocusing existing services/collections
  - Advancing organizational objectives, both:
    - University
    - Libraries

Photo copyright: https://xbrl.us/gvt-us-money/

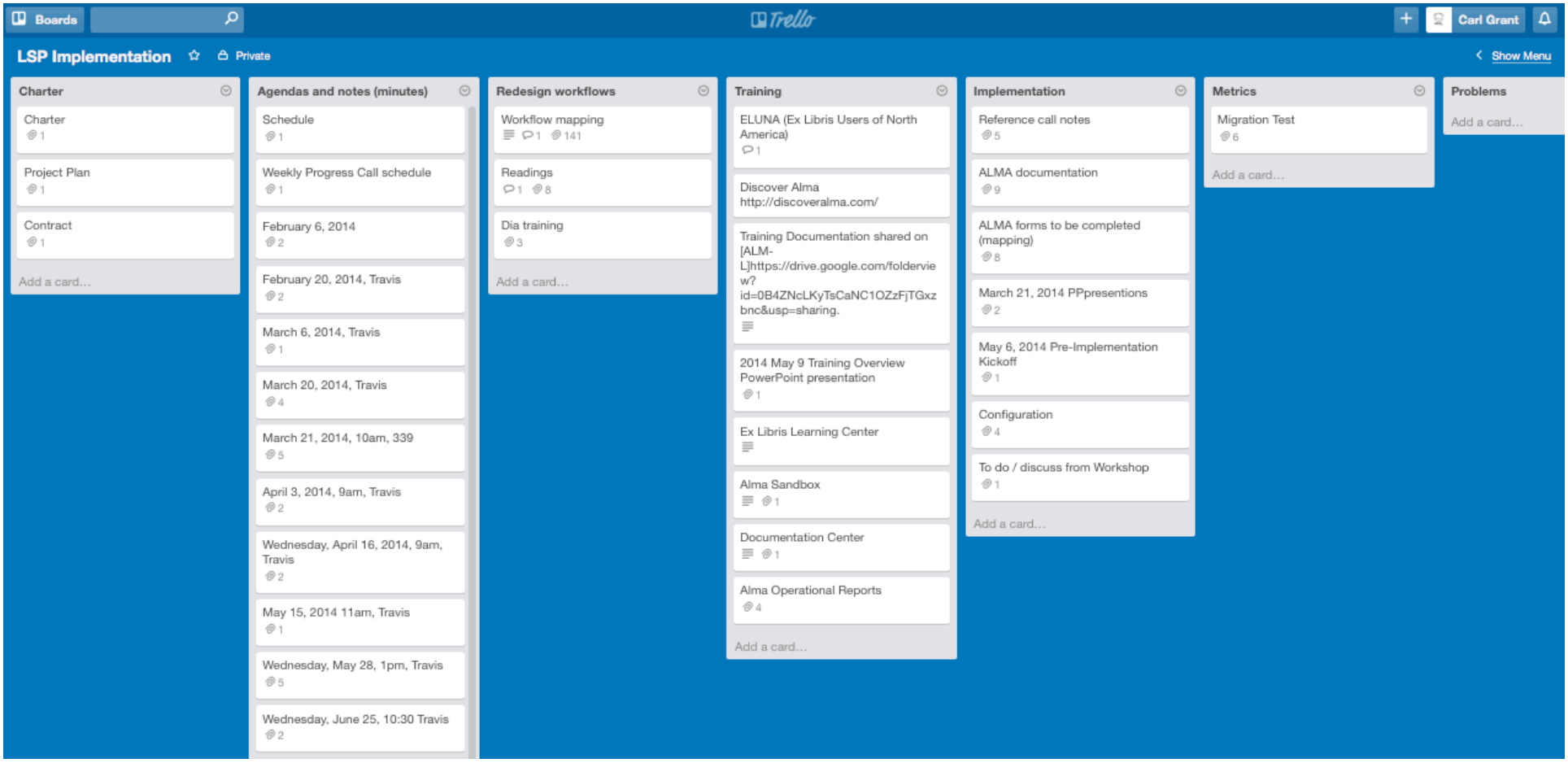
The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?
The Charter

Scope:

The LSP Implementation Team will work with all library departments to identify the best practices to be adopted in redesigning our workflows. The team will help:

- coordinate the departmental teams conducting this work;
- keep the organization focused on the agreed-upon goals and deliverables;
- work with the new LSP system to implement the workflows;
- provide forums for the identifying and addressing inter-departmental issues that arise during the implementation; and
- identify metrics to be measured to assess the quality and throughput of these new workflows.

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?
The Charter

Deliverables:

- Bi-weekly meetings, with pre-issued agendas and minutes after each meeting.
- Suggested and documented new workflows.
- Coordinate training in conjunction with Training Steering Committee
- A report identifying areas examined, improvements desired, metrics to be measured and identified, and expected problems that were encountered.
- A monthly status report issued to the Chief Technology Officer.
- A Trello project plan for managing this process/project.

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?
The Charter

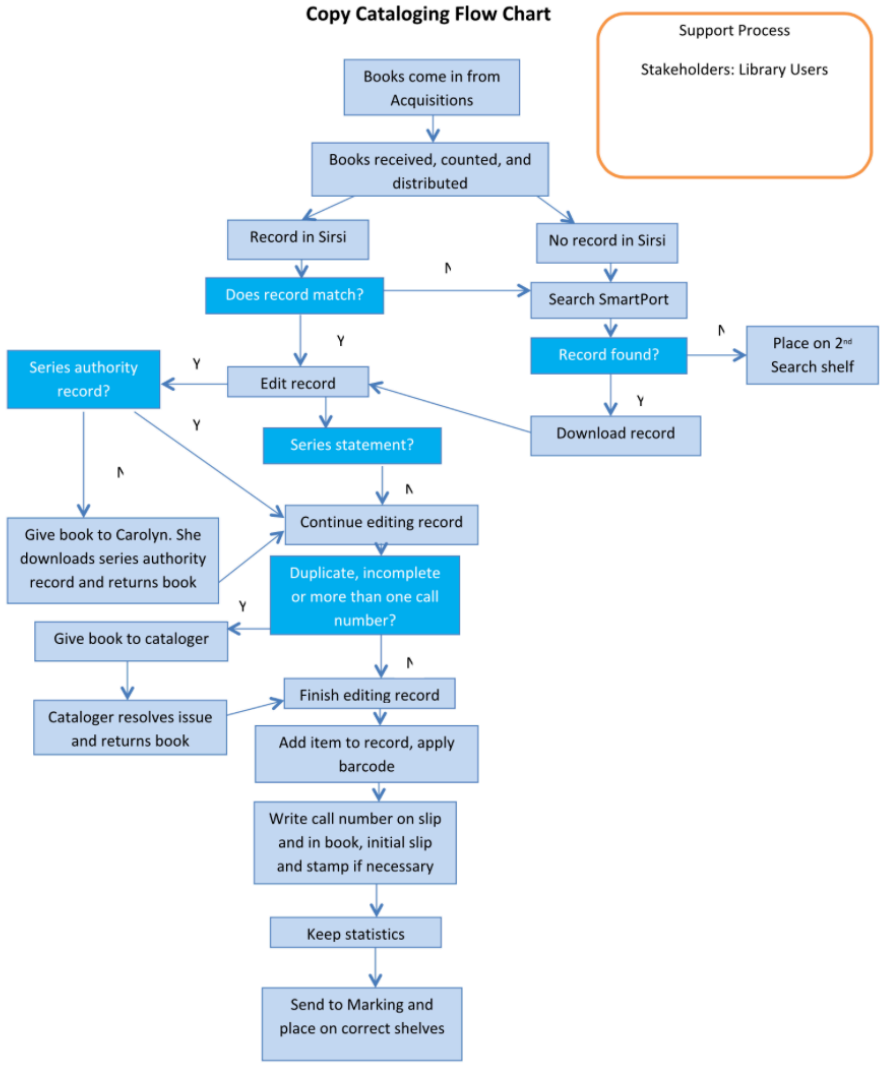
Library Service Platform implementation	2014										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
	S = Task started			> = Task continues				X = Task completed			
Workflow Analysis/restructuring		S	X								
Implementing LSP			S	>	X						
LSP Beta - Internal						X					
Fine tune LSP Implementation							S	X			

Actual Go-Live date? January 2015

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?

- Chart ALL workflows
  - Ideal
  - Current
  - Alma



The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Implementing a Library Service Platform?

Training

- After workflow charting, we utilized Ex Libris video training courses for team training
- Before “Go-Live” all public facing team members were tested to ensure understanding
- 6-months after “Go-Live” all team members took all the video training again

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

A Library Service Platform? What about OLE?

- Read: http://thoughts.care-affiliates.com/2016/04/the-ole-merry-go-round-spins-on.html
- OLE code base is dead. They're starting over.
- Microservices?
- Governance?
- Target market?
- Multi-tenant?
- 2018? ☺

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

Radically Collaborate!

Journal of Library Administration, 51:66–76, 2011
Copyright © Taylor & Francis Group, LLC
ISSN: 0193-0826 print / 1540-3564 online
DOI: 10.1080/01930826.2011.531642

Routledge
Taylor & Francis Group

Advancing From Kumbaya to Radical Collaboration: Redefining the Future Research Library

JAMES G. NEAL
Columbia University, New York, NY, USA

The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Radically Collaborate!

"Radical collaboration encourages academic libraries to move in four new directions:

1. Mass production (back-room operations)
2. Centers of excellence (specialized expertise or services)
3. New infrastructure (digital ingestion, processing, archiving)
4. New iniatives, new programs/project

In all four cases, the measures of success must be quality, productivity and innovation."

James G. Neal

The UNIVERSITY of OKLAHOMA LIBRARIES
libraries.ou.edu

Radically Collaborate!

- How we has OU "radically collaborated"?
  - Repository (jointly done with OSU/OU
  - Galileo's World (Partners across country/globe)
  - Innovation @ the Edge (Virtual reality / scaling)
  - Innovation Hub (Partners across campus)
  - Alma(LSP)/Primo(Discovery) - (Implementations)
  - Vendors (Exaptive, ProQuest/Ex Libris, others…)
  - CLIR – Postdoc position creation
- Planned?
  - Preservation/Archiving
  - Metadata
  - Research data services

Agenda

1. Introduction – A story about a research library
2. The 3 things you need to remember at the end:
   a. Have a plan, i.e. know where you're headed
   b. Think BIGGER
   c. Radically Collaborate
3. Conclusion

Conclusion

Remember!

a. **Have a plan, i.e. know where you're headed**
b. **Think BIGGER**
c. **Radically Collaborate**

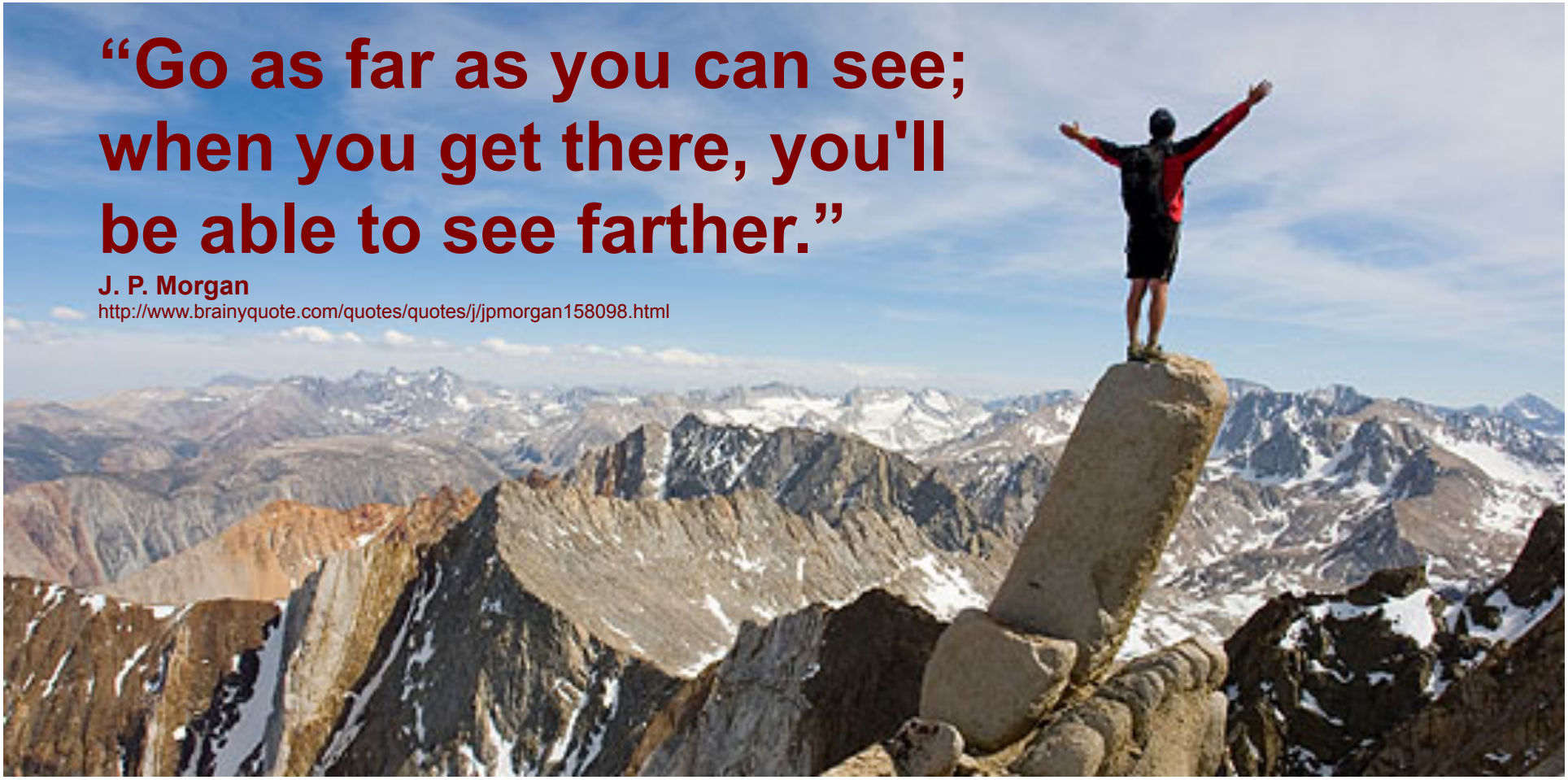
And, finally…..

Future – Where are we headed?

The 21st Century Library will:

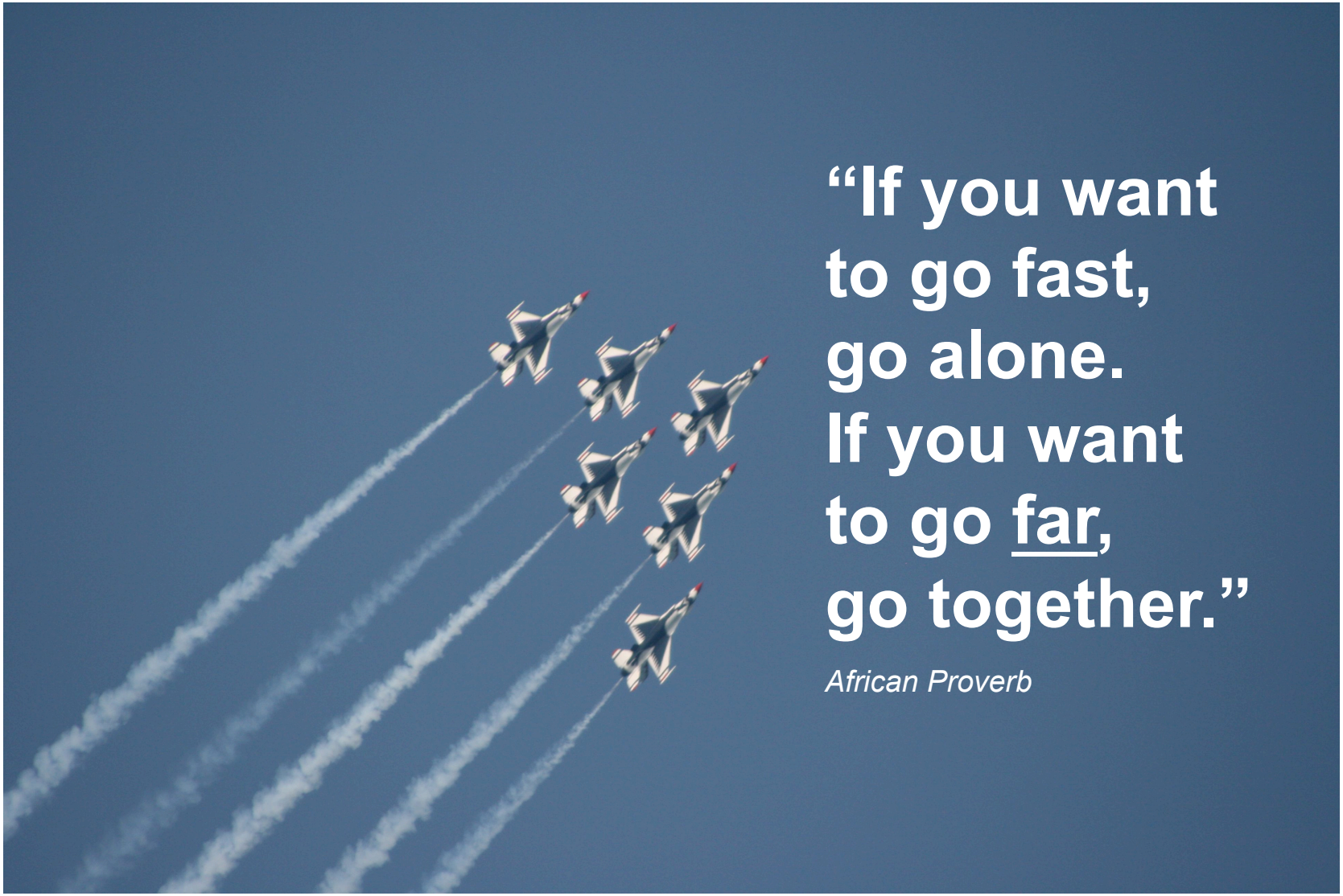
- See the community as part of their "collection"
- Provide them with seamless tools to provide services and facilitate knowledge creation.
- Build cognitive (not social) networks of people in their community.
- Use technology to pave ways for information to automatically find the users (analytics, Knowledge Creation Platforms and more) not the other way around.
- Be able to clearly document and show **value.**

Conclusion



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

Conclusion



The UNIVERSITY of OKLAHOMA
LIBRARIES
libraries.ou.edu

The End!
Q&A?

Carl Grant
Associate Dean for Knowledge Services
Chief Technology Officer
M: +1-540-449-2418
E: carl.grant@ou.edu
Twitter: http://www.twitter.com/carl_grant
Blog: http://thoughts.care-affiliates.com