

Research Data Management

LIBRARIAN ACADEMY



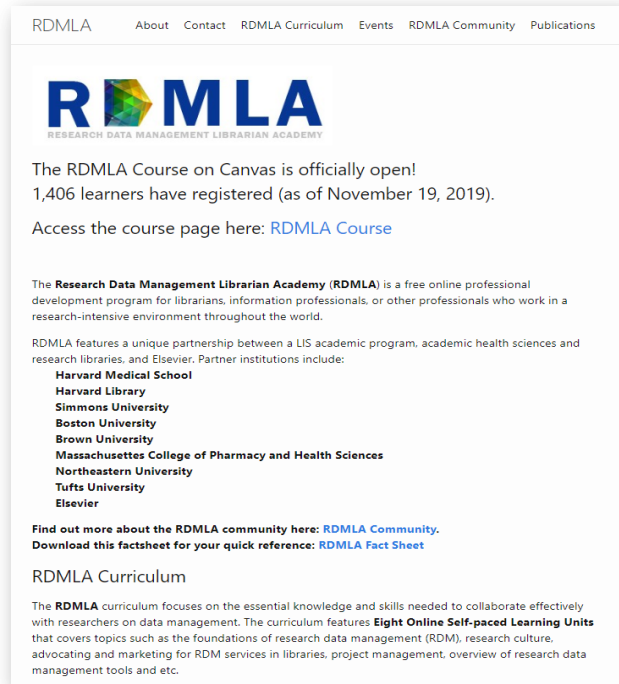
Elaine Martin, Rong Tang, and Jean P. Shipman
2019 Research Data Management Symposium

December 5, 2019

Agenda

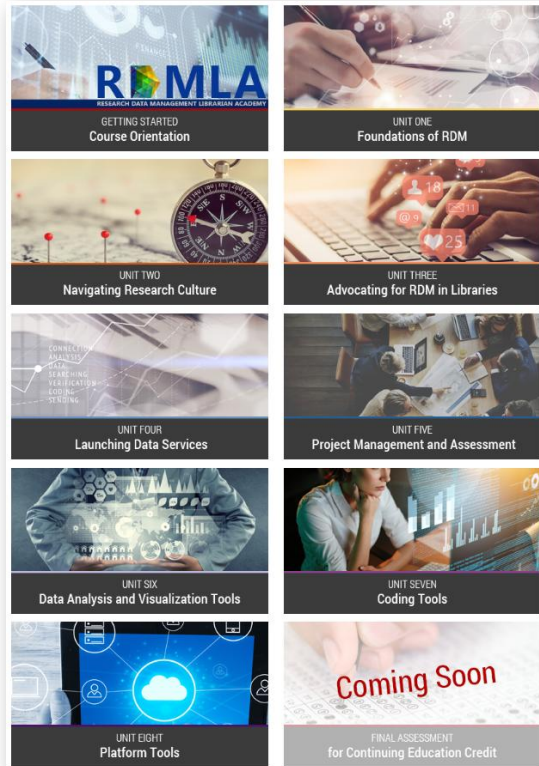
- What is RDMLA?
- Why was RDMLA created?
- What content is available from RDMLA?
- Who can take and/or benefit from RDMLA and how does one access it?
- Who developed RDMLA?
- What future plans are there for expanding and updating RDMLA?
- Why is RDMLA valuable to research leaders? Future librarian employers?
- Success metrics to date and the future
- Questions and Answers

What is RDMLA & Why is it Unique?

A screenshot of the RDMLA website. At the top is a navigation bar with links: RDMLA, About, Contact, RDMLA Curriculum, Events, RDMLA Community, and Publications. Below the navigation bar is the RDMLA logo, which consists of the letters 'RDMLA' in a bold, blue, sans-serif font, with a small green and blue geometric icon to the left of the 'M'. Underneath the logo is the text 'RESEARCH DATA MANAGEMENT LIBRARIAN ACADEMY'. The main content area has a white background. It starts with the text 'The RDMLA Course on Canvas is officially open! 1,406 learners have registered (as of November 19, 2019).' followed by 'Access the course page here: [RDMLA Course](#)'. Below this is a paragraph describing the RDMLA as a free online professional development program for librarians, information professionals, or other professionals who work in a research-intensive environment throughout the world. This is followed by a list of partner institutions: Harvard Medical School, Harvard Library, Simmons University, Boston University, Brown University, Massachusetts College of Pharmacy and Health Sciences, Northeastern University, Tufts University, and Elsevier. At the bottom of the screenshot, there are links to 'Find out more about the RDMLA community here: [RDMLA Community](#).' and 'Download this factsheet for your quick reference: [RDMLA Fact Sheet](#)'. The footer of the screenshot mentions 'RDMLA Curriculum' and describes the curriculum as focusing on the essential knowledge and skills needed to collaborate effectively with researchers on data management, featuring 'Eight Online Self-paced Learning Units' that cover topics such as the foundations of research data management (RDM), research culture, advocating and marketing for RDM services in libraries, project management, overview of research data management tools and etc.

- An online education program offering individuals an opportunity to learn about research data management practices.
- Developed in partnership with industry, a team of librarians and LIS faculty who have expertise with RDM.
- Filling in a gap in RDM training
- Website: rdmla.github.io

RDMLA Course on Canvas



- The Academy offers **eight** units, which can be taken in sequence or out of order.
- All units are hosted online via the Canvas Network platform under **CC-BY-NC-SA** licensing.
- Website: rdmla.github.io

Partner Institutions



Harvard
University



Harvard
Medical School



Simmons
University



Boston
University



Tufts
University



Northeastern
University



Massachusetts
College of
Pharmacy and
Health Sciences



BROWN
Brown
University



ELSEVIER

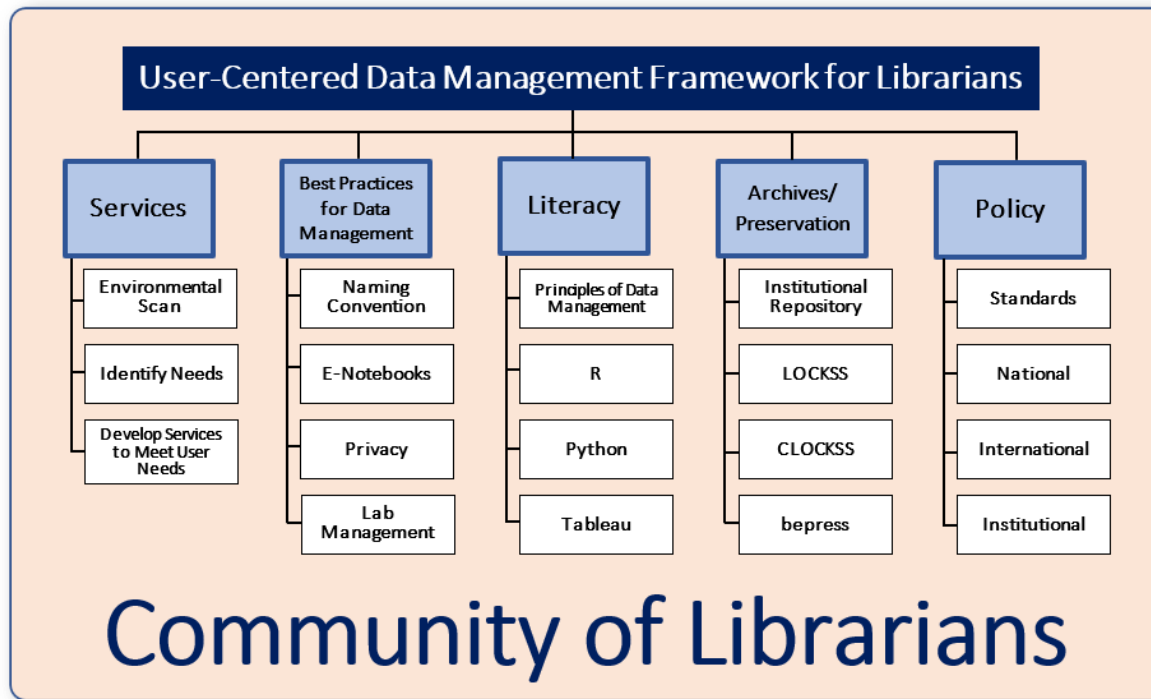
Elsevier

(financially supports program also)

The Role of Librarians in RDM

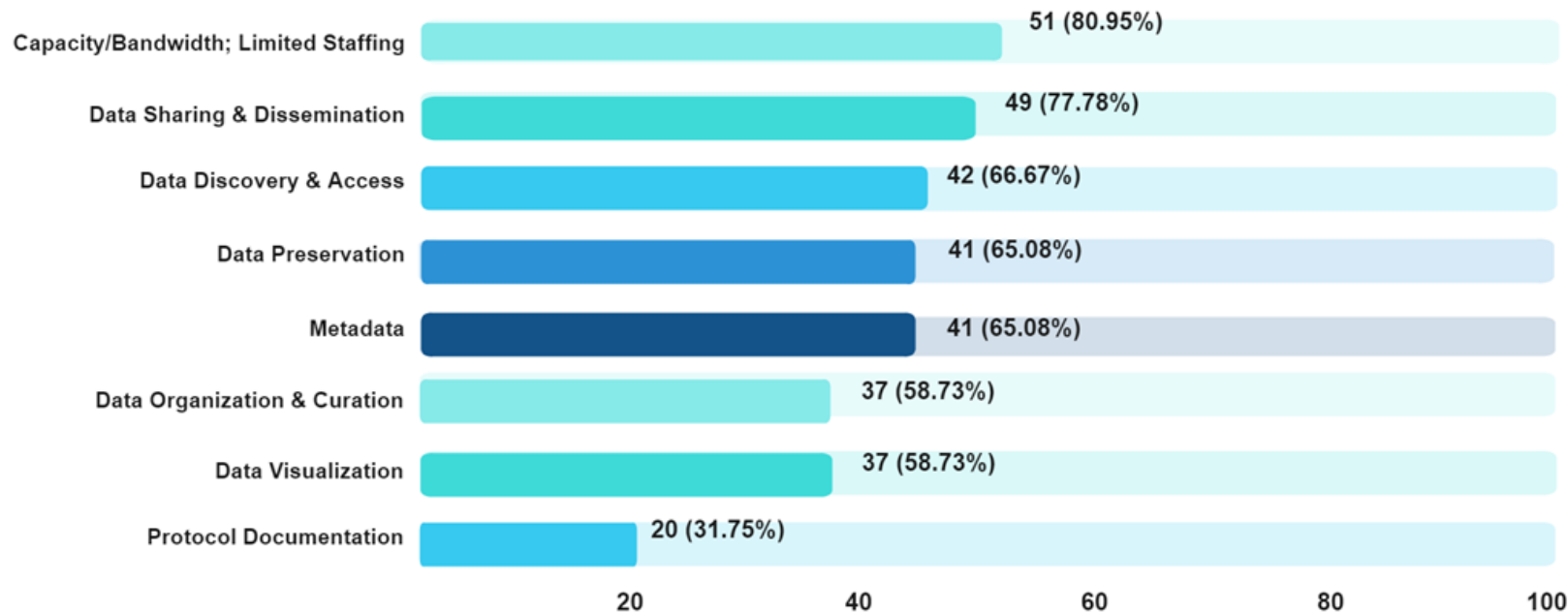
- **Service** Bucket
- **Best Practices for Data Management** Bucket
- **Literacy** Bucket
- **Archives/Preservation** Bucket
- **Policy** Bucket
- **Community of Librarians**

User-Centric Data Management Framework for Librarians



Challenges Librarians Face

Challenges Libraries Face in RDM Service Provision(N=54)



Strategies to Address the Challenges

- RDMLA
- Collaboration with IT, Office of Research, and other stakeholders.
- Library directors need to advocate for funding for their RDM services.
- Partner with other libraries and share experiences to build a community of RDM.

Why Was RDMLA Created?

- Researchers can benefit from a team member who can organize and describe data effectively.
- Librarians can transfer content organizational and descriptive talents to data along the different phases of the research lifecycle.
- Librarians currently have a continuum of skill levels with research data management (RDM); RDMLA was created for the practicing librarian to enhance their skill sets so they can be part of research teams.
- RDMLA can also be applied by researchers wishing to learn more about RDM foundations and related software and tools.

Who Developed RDMLA?

Leadership

Elaine Martin (Harvard)

Rong Tang (Simmons)

Jean P. Shipman
(Elsevier)

Project Staff

Zhan Hu (Simmons)

Irena Fayngold, Ellen Berrigan, Madhu Narayan (Simmons)

Ashley Thomas (Simmons, Harvard)

Faculty

See Next Slide

Simmons SLIS & Simmons Online

Sanda Erdelez (SLIS Director, Simmons SLIS)

Kristen Palson, Courtney Bohr, Madhu Narayan
(Simmons Online)

RDMA Faculty

Unit 1 Elaine Martin (Harvard), Julie Goldman (Harvard), Danielle Pollock (Simmons), Philip Coombs (BU)

Unit 2 Andrew Creamer (Brown)

Unit 3 Ceilyn Boyd (Harvard); [Elaine Martin \(Harvard\)](#), [Mary Blanchard \(BU\)](#), [Eric Albright \(Tufts\)](#), [Richard Kaplan \(MCPHS\)](#)

Unit 4 Jen Ferguson (Northeastern), Rebecca Morin (Tufts)

Unit 5 Rachel Lewellen (Harvard), Alison Thornton (Harvard), Danielle Adams (Harvard)

Unit 6 Berika Williams (Tufts)

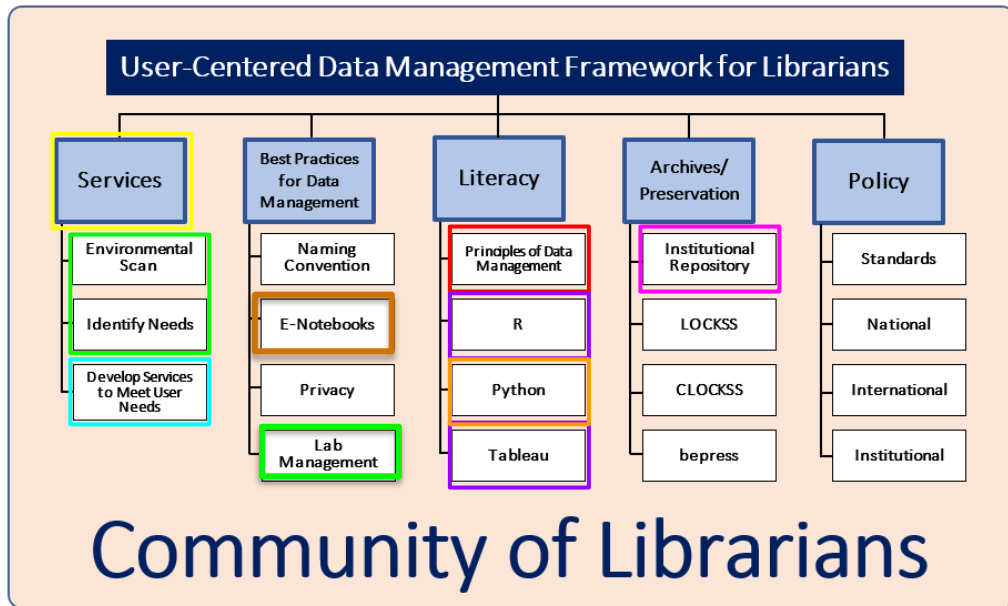
Unit 7 Scott Lapinski (Harvard), Roger Vargas (Harvard)

Unit 8 Jean P. Shipman (Elsevier), Julie Goldman (Harvard), Scott Lapinski (Harvard)

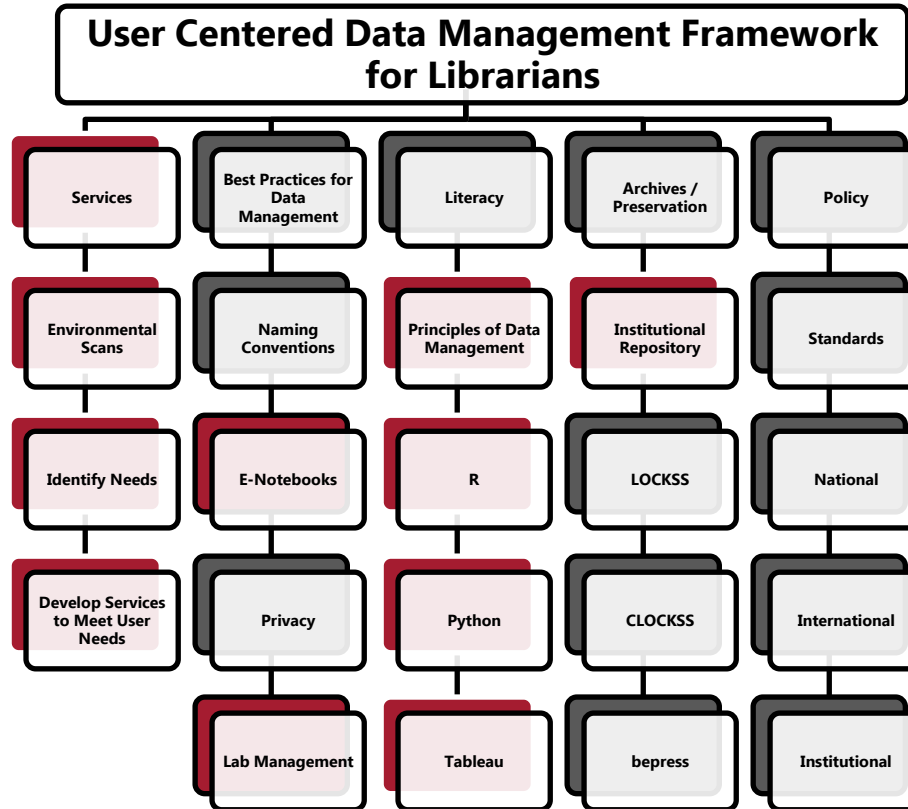
What Content Is Available In RDMLA?

- Unit 1: **Foundations of Research Data Management (RDM)**
- Unit 2: **Navigating Research Data Culture**
- Unit 3: **Advocating and Marketing the Value of RDM in Libraries**
- Unit 4: **Launching Data Services in Libraries**
- Unit 5: **Project Management and Assessment**
- Unit 6: **Overview of Data Analysis and Visualization Tools**
- Unit 7: **Overview of Coding Tools**
- Unit 8: **Overview of Platform Tools (eg. Mendeley Data, OSF, NIH)**

The Match



Community of Librarians



Welcome Page

The screenshot shows the Canvas LMS interface for a course titled "PD-0116-RESEARCH-DATA-MANAGEMENT". The left sidebar contains navigation links: Home, Announcements, Modules, Badges, Collaborations, Courses, Calendar, Inbox, and Help. The main content area features a "Recent Announcements" section with a welcome message from the Research Data Management Librarian Academy (RDMLA) dated Nov 8, 2019 at 4:05pm. Below this is a banner for RDMLA with the text "Welcome!". The course description states: "This course explores research data management (RDM) best practices. The RDMLA consists of 8 units which can be taken individually, or as a complete program. Every unit includes text and video-based content. For most units, you will be required to take a short summative quiz at the end. We recommend starting with Unit 1 but the units may be taken in any order. For continuing education credits, the completion of all 8 units is as a prerequisite. Please plan to spend approximately 1 to 1.5 hours to complete each unit. To get started, simply click any of the unit titles below. You can also navigate by selecting 'Modules' in the left navigation panel. The Module view offers you a high level navigation of each unit and the sections within. Please note that some elements of our home page may not be viewable on mobile browsers. For an optimized experience, we recommend viewing this course on your computer. For general questions that are not answered in the course materials or in Canvas Guides e, please visit the Help Forum. This table includes 9 unit navigation blocks for the course". At the bottom, there are two unit navigation blocks: "GETTING STARTED Course Orientation" and "UNIT ONE Foundations of RDM".

Course Orientation

The screenshot shows the Canvas LMS interface for the same course, but specifically for the "RDMLA: An Introduction" module. The left sidebar is identical to the previous screenshot. The main content area features a banner for RDMLA with the text "RDMLA: An Introduction". Below this is a video player showing a video titled "RDMLA Introduction" featuring Elaine Martin and Rong Tang. The video description states: "In this video, Elaine Martin and Rong Tang (RDMLA co-leaders) provide more information about RDMLA, including its partnerships, the community, and the curriculum. Click play to begin". Below the video player, there are links for "Run Time: 3:01 | Transcript | Slideshow" and a link to "Visit the RDMLA website to learn more". At the bottom, there are "Previous" and "Next" navigation buttons.

Instructors



Ceilyn Boyd



Elaine Martin



Mary Blanchard



Eric Albright



Richard Kaplan

Unit Objectives

- Describe common institutional RDM stakeholders, including advocates and potential partners.
- Describe common institutional and organizational barriers to implementing RDM services in the library.
- Compare common successful and unsuccessful strategies for advocating for RDM services.

Instructors



Jen Ferguson



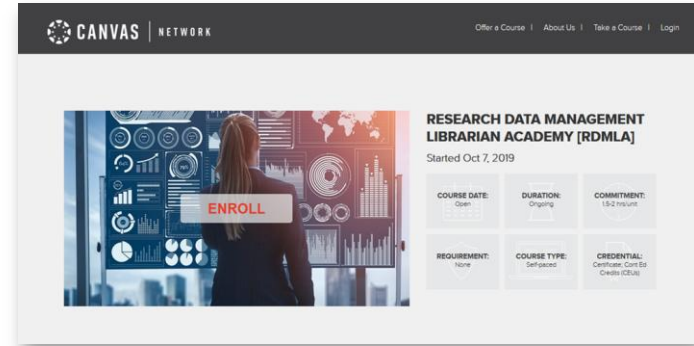
Rebecca Morin

Unit Objectives

- Evaluate how their institution might fit with various data service approaches and models.
- Describe the stakeholders and groups to consider when launching and managing data services in libraries.
- Design an action plan to establish data services in their institution.

RDMLA Target Learner Population

- Who can take and/or benefit from the RDMLA?
 - Library and Information Professionals
 - Professionals who work in research intensive environments
- How does one access?
 - Go to rdmla.github.io



Timeline



Summer-Fall 2018

- A needs assessment survey
- A LIS educator short survey
- A competency scan
- An inventory of training and formal RDM curricula



Spring-Summer 2019

- Course unit design and development
- Video recording, implementation of exercises and interactive learn objectives
- Establish Simmons CE system



Fall 2019+

- QA tests
- Usability and UX tests
- Formal launch of RDMLA on October 7, 2019
- Simmons SLIS CE credit issuance (start January 2020)

Future Plans

- Complete usability testing sessions and quick fixes recommendations
- Establish Simmons CE Program (to be available January 2020)
- Add new units to RDMLA
 - Data Ethics
 - Data Copyright
 - Data Curation and Archiving
- Explore international partnerships for translations for multilingual versions of RDMLA
- Use learning analytics to improve and enhance RDMLA

Why is RDMLA Valuable?

- **For Research Leaders:**

- Understand the role of librarians in supporting RDM planning, and execution for their grants/projects (Unit 2: Roles of the Research Team).
- Involve librarians in data curation, archiving, and reuse.

- **For Librarians:**

- An extremely valuable resource for current library workforce to tool or retool on RDM practices and projects.

- **For LIS Educators:**

- A valuable source for teaching RDM courses in LIS schools or programs.

Feedback

P060 from Usability Testing

*Lecturer on Information Sciences,
University of Pretoria, South Africa*

“I would like to commend you (and the others involved) on a really excellent and much needed course on RDM. I felt that it was well organized, and a good blend of different types of materials (e.g. video, text, exercises). I am looking forward to doing the rest of the modules.”

From Email Exchange

*Associate Professor, School of Library and
Information Studies, University of Alberta, Canada*

“I wanted to thank you so much for your work on this project and making it available as an open education resource. I am going to enroll immediately. I also teach the Introduction to Research in LIS course and the Seminar in Advanced Research and will definitely either encourage students to use this resource, build a small assignment using it, or both. This is wonderful.”

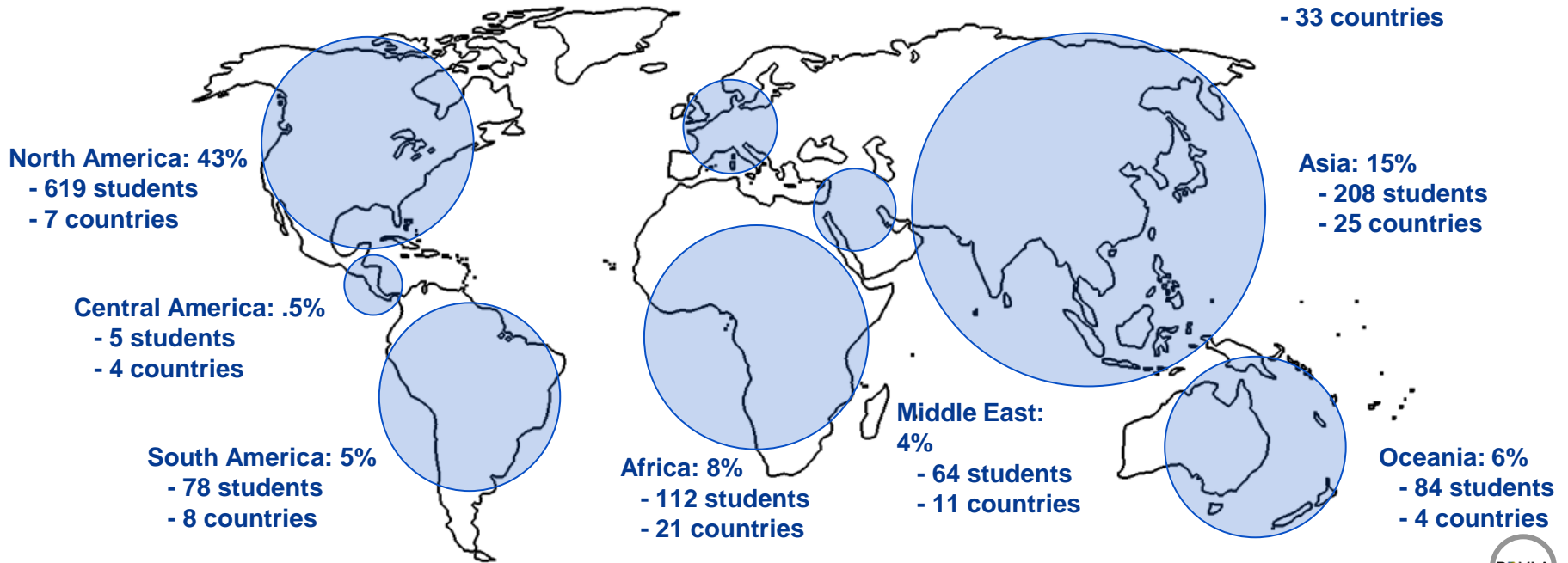
Success Metrics to Date

October 7, 2019 to December 4, 2019

- Active Students: 1,564
- Discussion Forum Posts: 485
- Badges Awarded: 770
- Course Completion Badges: 43

Where In the World Are RDMLA Students?

Numbers based off of 1427 student IP addresses



RDMLA

RDMLA

RESEARCH DATA MANAGEMENT LIBRARIAN ACADEMY

Comments by Usability Participants

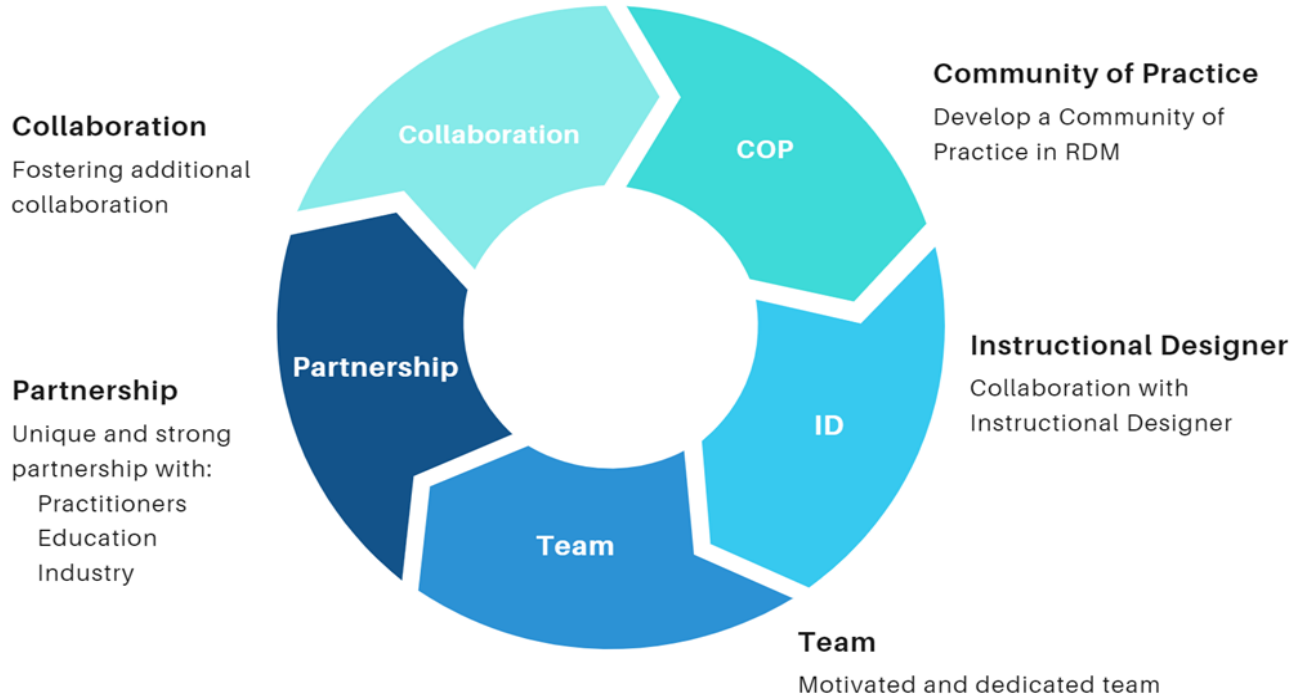
Positive Reactions to RDMLA

- P027: “I saw Tufts and Harvard and Simmons, Boston University, of course, Elsevier ... There were several very prestigious organizations involved. It makes me feel like this is a really nice joint effort.”
- P031: “It’s self paced ... I like the course objectives, I like that it’s on there because now I’m getting more of like, alright this is what we’re going to be talking about.”

Usability Comments

- P001: “It looks very nice and very simple. I like the layout of the individual units ... It’s very clearly laid out.”
- P004: “The quiz automatic grading does not provide explanation for why certain option selected is wrong.”
- P031: “I will say, now that I’m here [Unit Overview page], I wish there was some kind of overarching hierarchy tree, on the side of the page. You know if I were coming back ... I know on the front page you can like skip around.”

RDMLA Development: Recipe for Success





Monthly Meeting
April 2019

Check out the Course: rdmla.github.io

Spread the word!



Questions?