Research Data Management Librarian Academy:

An Opportunity to Develop Skills and Knowledge from Peers

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Agenda

- Overview
  - What is RDMLA
  - Partner Institutions
  - The RDMLA Team
  - Timeline
- RDMLA Curriculum & Unit Development
  - RDMLA Curriculum
  - Units
- Simmons SLIS CE
- Next Steps

What is RDMLA?

- An online educational program offering individuals to learn about research data management practices.

- Developed by a team of librarians who have expertise with RDM.

- The Academy offers eight units which can be taken separately or as a group.

- All units will be hosted online via the Canvas platform.

Project Timeline

Needs Assessment and Training Inventory
Summer - Fall 2018

- A needs assessment survey via Library Connect
- A competency scan and an inventory of training and formal RDM curricula
- A LIS educator short survey

PHASE 1

Research Data Management Librarian Academy Survey

Results compiled 2018-09-08 by
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Access the Phase I Report here:
https://rdmla.github.io/home/

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PHASE
1

Needs Assessment Survey

Timeline
2018-04-23 - 2018-09-04

Instrument
19 questions developed by Harvard Medical School and Elsevier

Distribution
Relevant groups via:
- Email
- Library Connect blog post
- Listservs
- Word of mouth
- Conferences & events

Responses
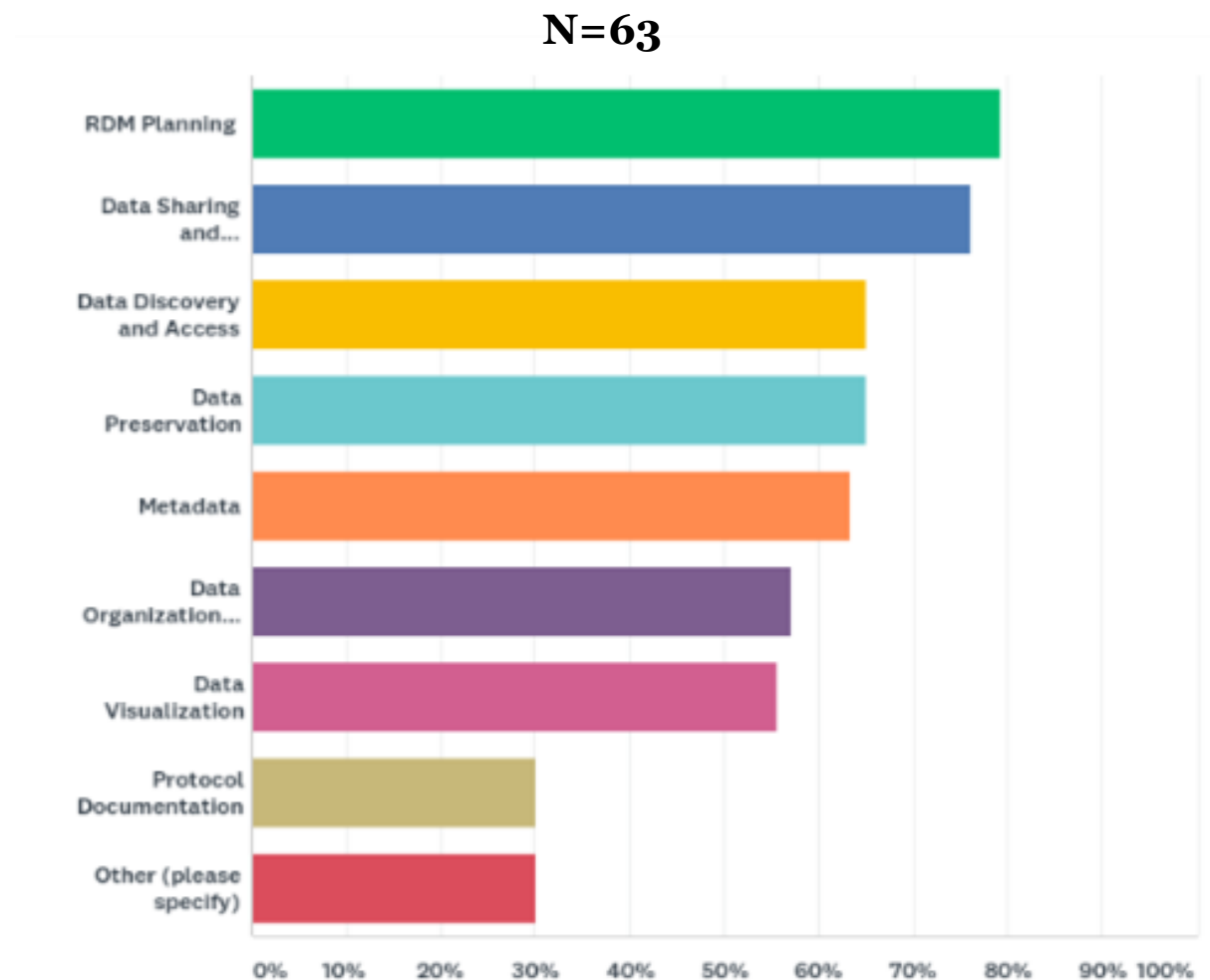241 responses collected by 2018-09-04
Majority of responses during May 2018
628 Qualitative, open-answer responses hand-coded

**Survey
Questions
&
Results**

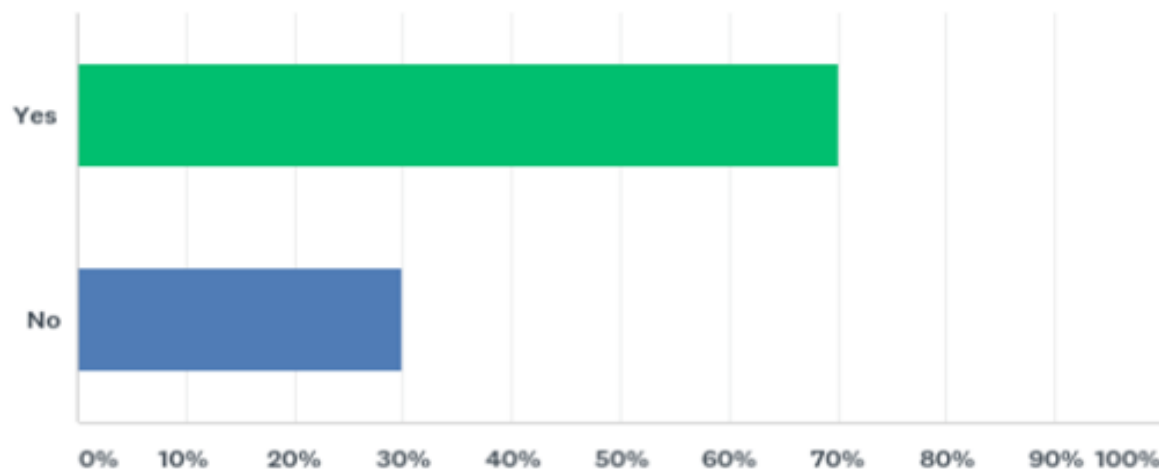**Q16. What RDM services does your institution offer?
(select all that apply)**

N=63

**Survey
Questions
&
Results**

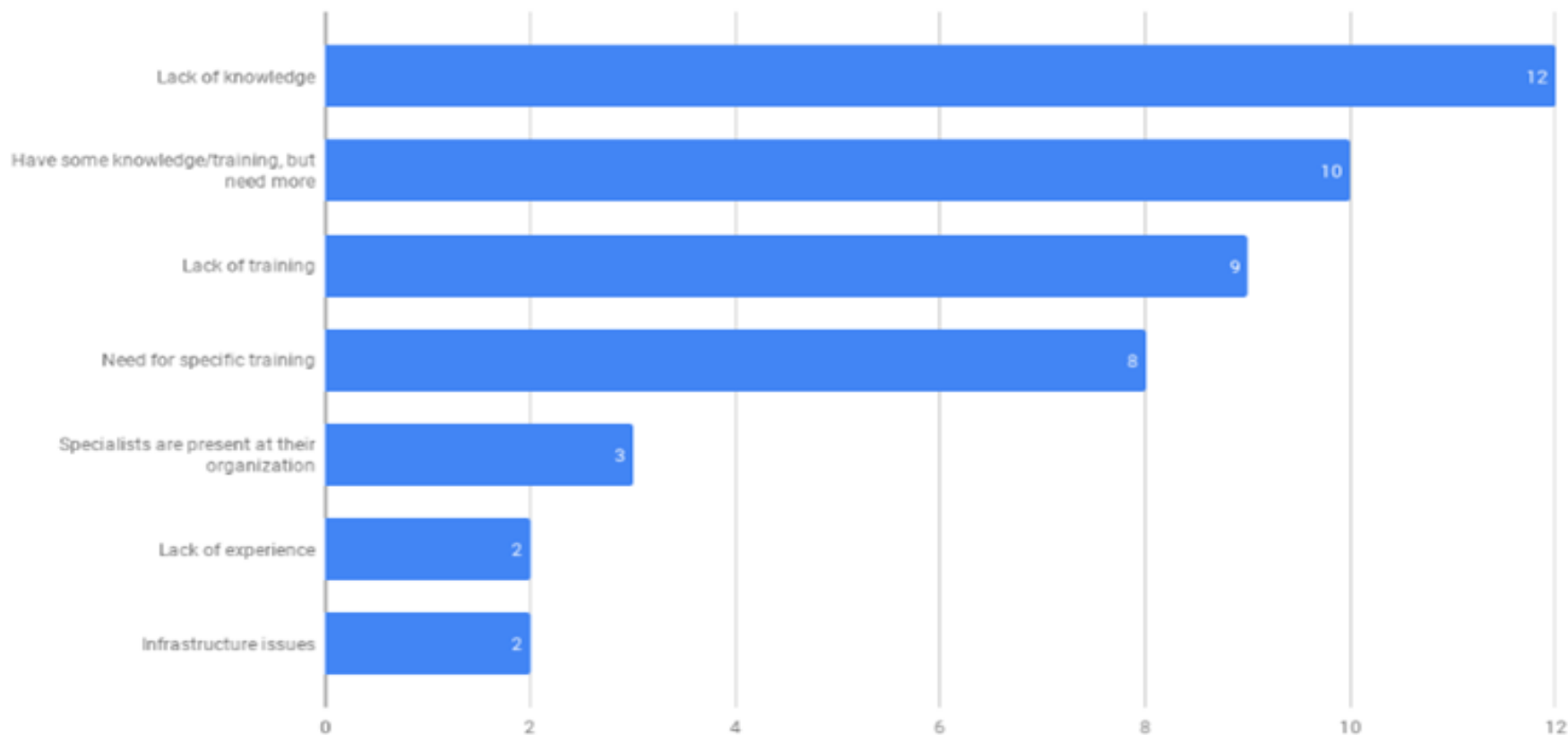**Q6a. Do you personally feel prepared to offer RDM services?**

N=87

Q6b. Respondents who did not feel prepared to offer RDM services indicated why:

N=54

Bar chart showing responses:
- Lack of knowledge: 12
- Have some knowledge/training, but need more: 10
- Lack of training: 9
- Need for specific training: 8
- Specialists are present at their organization: 3
- Lack of experience: 2
- Infrastructure issues: 2

Q7. What further RDM training do you need?

N=66

Category	Count
Software/coding/technical skills	23
Discipline or funder-specific practices/tasks/tools	14
Infrastructure issues	10
Hands-on training	8
Data management/data management plans	8
Consultations/instruction/outreach	7
"Everything"/"lots"/non-specific wide range	6
Collection of RDM resources	6
Data curation	5
Data repositories/data storage	4
Data security (including de-identification)	5
Metadata	5

PHASE 1

PHASE 1

LIS Educator Analysis

Survey & Course Review Results

- Six respondents (5 NOAM, 1 Europe)
- All offered RDM courses
  - Data analytics
  - Data capture
  - Data visualization
  - Data & text mining
  - Data science &n management
- Courses offered online, in-person, or hybrid
- Overlapping results between Educator Survey and ALA/LIS schools' RDM curricula review

PHASE 1

Competencies Scan & Data Science Training & Curricula Inventory

Competencies Scan
- Analyzed 44 Position Descriptions
- Examined 16 websites of 14 data-related groups

Training Opportunities
Analyzed 164 training programs (MOOCs, Webinars & Workshops)

Formal Data Science Curricula
- Courses/programs **outside LIS**: 22 courses/programs from 13 universities
- **ALA accredited programs**: 25 courses from 14 schools
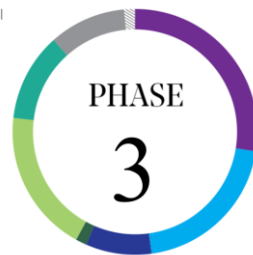- **iSchools**: 165 courses from 45 iSchools

Job Description Competencies

Project Timeline

Academy Content Development

Spring - Summer 2019

- Academy course unit design and development
- Video recording, implementation of exercises and interactive learning objects
- Establish Simmons CE process
- Usability and UX tests
- QA tests

Launch

Fall 2019

- Formal launch of RDMLA
- CE credit issuance (start in January 2020)

Partner Institutions

- Harvard Medical School

- Harvard University

- Simmons University

- Boston University

- Brown University

- Massachusetts College of Pharmacy and Health Science University

- Northeastern University

- Tufts University

- Elsevier

RDMLA Development Team

Leadership	• Elaine Martin (Harvard) • Rong Tang (Simmons) • Jean Shipman (Elsevier)
Project Staff	• Zhan Hu (Simmons) • Irena Fayngold & Ellen Berrigan (ID, Simmons) • Courtney Bohr & Ashley Thomas (Simmons)
Faculty	• See next slide
Simmons SLIS Simmons Online	• Sanda Erdelez (SLIS Director, Simmons) • Kristen Palson (Simmons Online)

RDMLA Faculty

- Elaine Martin (Harvard); Julie Goldman (Harvard); Danielle Pollock (Simmons); Philip Coombs (BU);

- Andrew Creamer (Brown)

- Ceilyn Boyd (Harvard); Elaine Martin (Harvard); Richard Kaplan(MCPHS); Eric Albright (Tufts); Mary Blanchard (BU)

- Jen Ferguson (Northeastern); Rebecca Morin (Tufts)

- Rachel Lewellen (Harvard); Alison Thornton (Harvard); Danielle Adams (Harvard)

- Berika Williams (Tufts)

- Scott Lapinski (Harvard); Roger Vargas (Harvard)

- Julie Goldman (Harvard); Scott Lapinski (Harvard); Jean Shipman (Elsevier)

The RDMLA Curriculum

- 8 Unit + 1 Assessment Unit (for CE)

RDMLA

- Foundations of RDM
- Navigating Research Data Culture
- Advocating and Marketing the Value of RDM in Libraries
- Launching Data Services in Libraries
- Project Management & Assessment
- Overview of Data Analysis and Visualization Tools
- Overview of Coding Tools
- Overview of Platform Tools

Note: The Mendeley Data modules developed by Elsevier would be included in RDMLA Unit 8

RDMLA Units 1-2

Foundations of RDM

- Instructors: Philip Coombs, Elaine Martin, Danielle Pollock, Julie Goldman
- Introduction to the full range of RDM services based on DataOne data lifecycle stages, with a clear understanding of the role of the librarian/information professional.

Navigating Research Data Culture

- Instructor: Andrew Creamer
- RDM librarians need to understand researcher roles and research culture so they can design their services to meet the needs of research teams

RDMLA Units 3-4

Advocating and Marketing the Value of RDM in Libraries

- Instructors: Ceilyn Boyd; Richard Kaplan; Eric Albright; Mary Blanchard; Elaine Martin
- By using case studies of effective advocacy, make the case why libraries are the institutions that should offer data services to research projects

Launching Data Services in Libraries

- Instructor: Jen Ferguson; Rebecca Morin
- Focuses on what RDM services to deliver and how those services will be delivered (will use international case studies)

RDMLA Units 5-6

Project Management & Assessment

- Instructor: Rachel Lewellen; Alison Thornton; Danielle Adams
- Focuses on the project management aspect of RDM services and assessing that the services offered are effective at meeting their objectives.

Overview of Data Analysis and Visualization Tools

- Instructor: Berika Williams
- RDM services can include processing, analyzing, and visualizing research data. This unit gives high level overview of tools needed for these tasks.

RDMLA Units 7-8

Overview of Coding Tools

- Instructor: Scott Lapinski; Roger Vargas
- Focus on particular programming tools such as Python and Jupyter Notebook by providing a higher level overview of the tools but not specific procedure of using the tools.
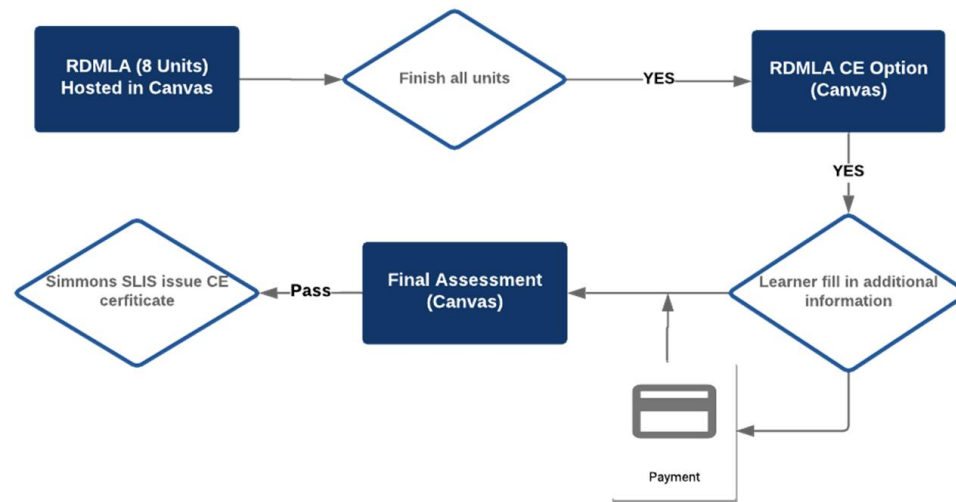
Overview of Platform Tools

- Instructor: Julie Goldman; Scott Lapinski; Jean Shipman
- RDM Services can't be accomplished without data repositories. This unit introduces platforms used for sharing data and collaborating.
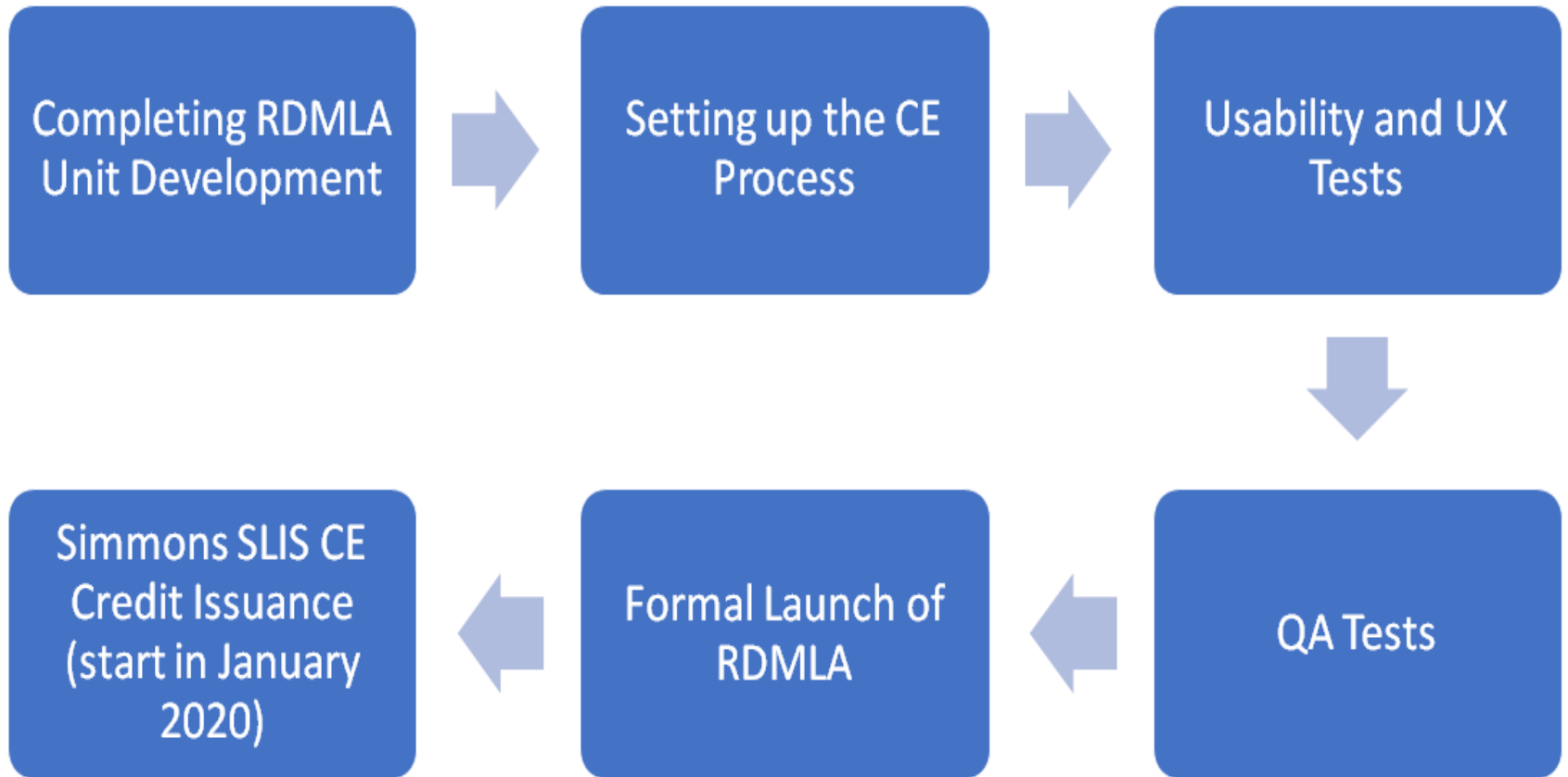
Course Units & CE certificate
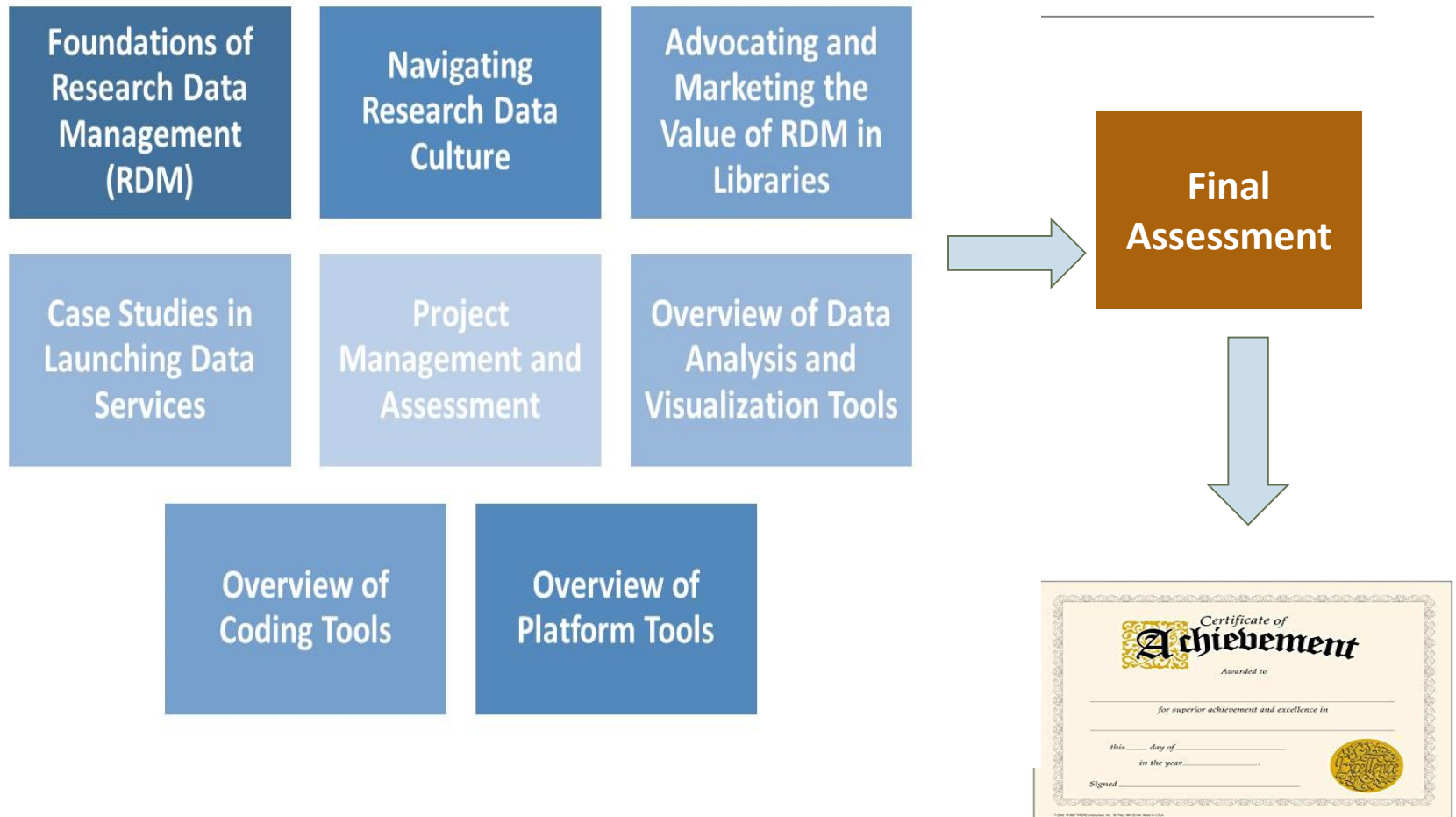
The CE Process

- RDMLA learners access course units on Canvas

- Upon completing each unit, they receive a unit completion certificate

- After they complete all eight units, if they choose to obtain Simmons CE credits, they pay a fee, take the RDMLA overall assessment test, and

- By passing the test, they receive Simmons SLIS CE credits

Next Steps

Completing RDMLA Unit Development → Setting up the CE Process → Usability and UX Tests

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QA Tests

Formal Launch of RDMLA

Simmons SLIS CE Credit Issuance (start in January 2020)

THANK YOU!

Please tell your community members about

Questions?