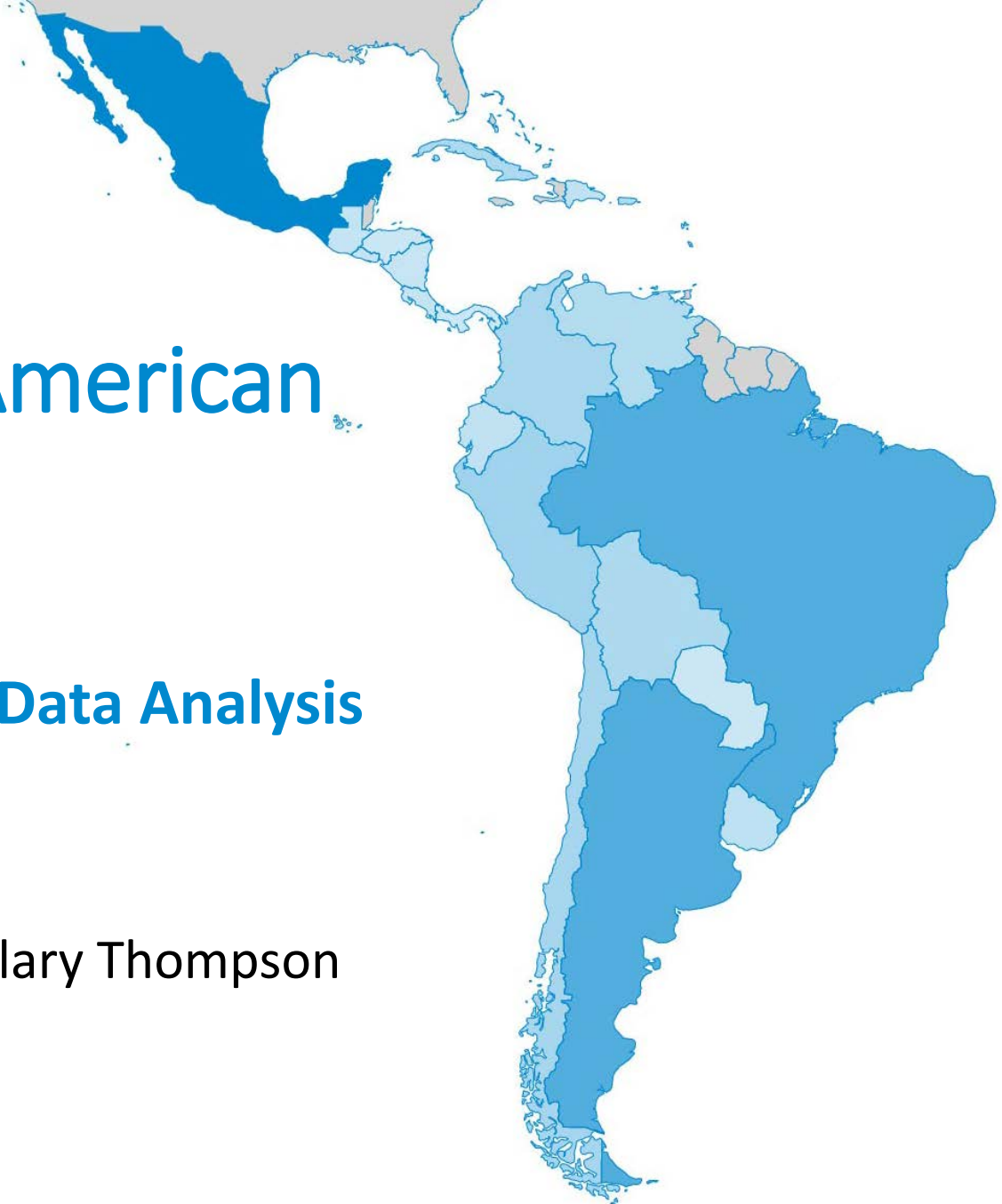


Sharing and Collecting Latin American Publications in the Big Ten:

Developing a Methodology for Consortial Data Analysis

Lisa Gardinier, Manuel Ostos, Austin Smith, and Hilary Thompson
IDS Project Conference 2018



BTAA Library Conference 2017

The Big Ten Academic Alliance Collective Collection: Leveraging a Legacy to Shape Our Shared Future

“The conference will explore how member research libraries can move from legacy cooperative collection development activities to a more holistic environment that leverages robust discovery, digitization, [delivery](#), and shared service environments to advance and shape the collective collection.”

Why focus on international publications?

- Less funding or support
- Greater need to demonstrate their impact and use
- Barriers to international ILL

Study Parameters

Geography = Central America OR
South America OR Caribbean Islands

AND

Language = Spanish OR Portuguese

19 Countries + Puerto Rico



Methodology: ILL Data Analysis

1. ILLiad custom searches or Access queries
2. Python script (Google Language Detection + WorldCat Search API)
3. Access queries

Analysis of ILL borrowing requests by date and country of publication, call number, format, requestor status, lender, and fill rate

Methodology: Collections Analysis

Python script using WorldCat Search API
(tailored according to ILL data)

dt="bks" and yr:2006-2016 and li:UMC and cp:ag and (lc=B1 or lc=B2*
or lc=B3* or lc=B4* or ...)*

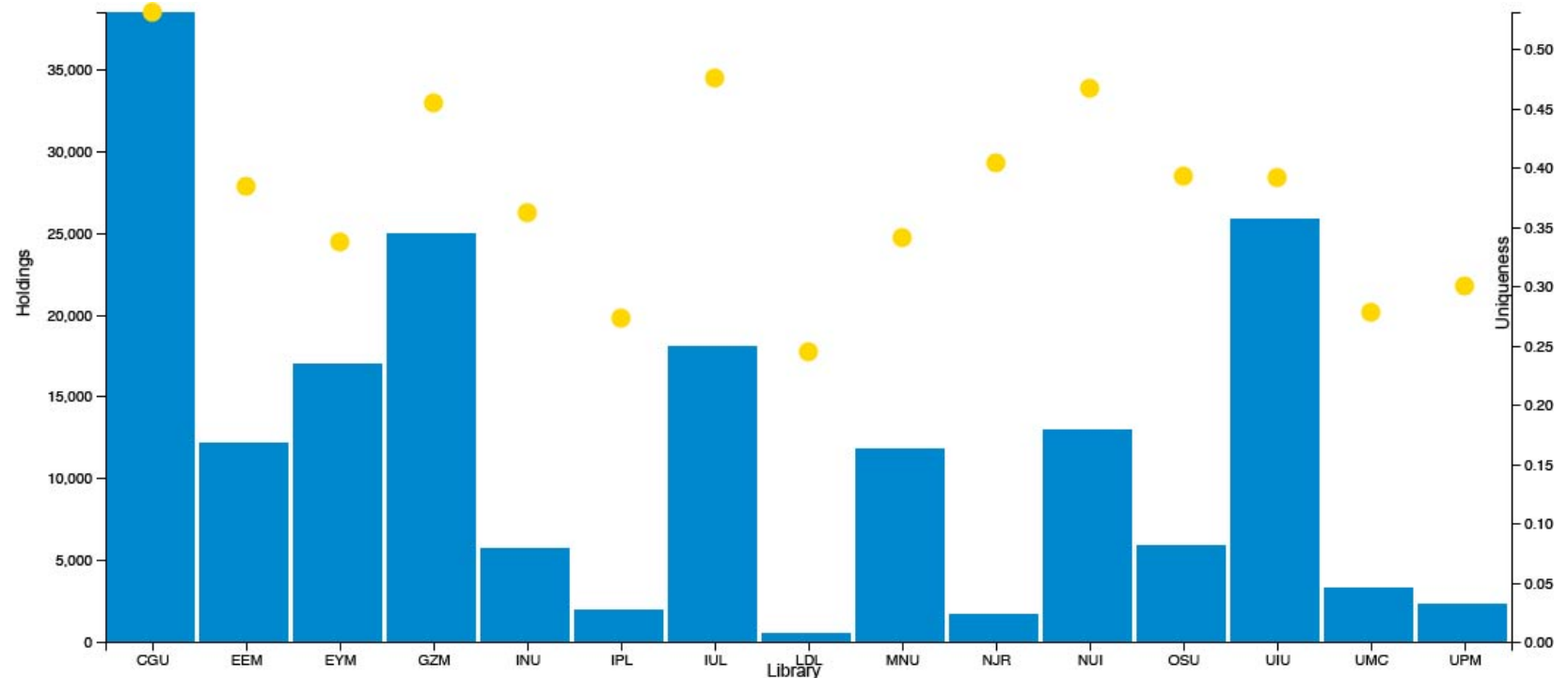
Collection size and duplication percentage by country of publication
and call number

Methodology: Measuring Volume v. Uniqueness

$H(n)$ = the number of items held by n libraries

$T(n)$ = total collection size.

$$\sum_{i=1}^C \frac{H(n)}{n \cdot T(n)}$$



Limitations

1. Quality of MARC cataloging
2. Language detection algorithm
3. Lack of circulation and other consortial borrowing data
4. Duplication analysis by OCLC number (not title)

Results

2,732,082 ILL requests

29,804 ILL requests for Latin American materials

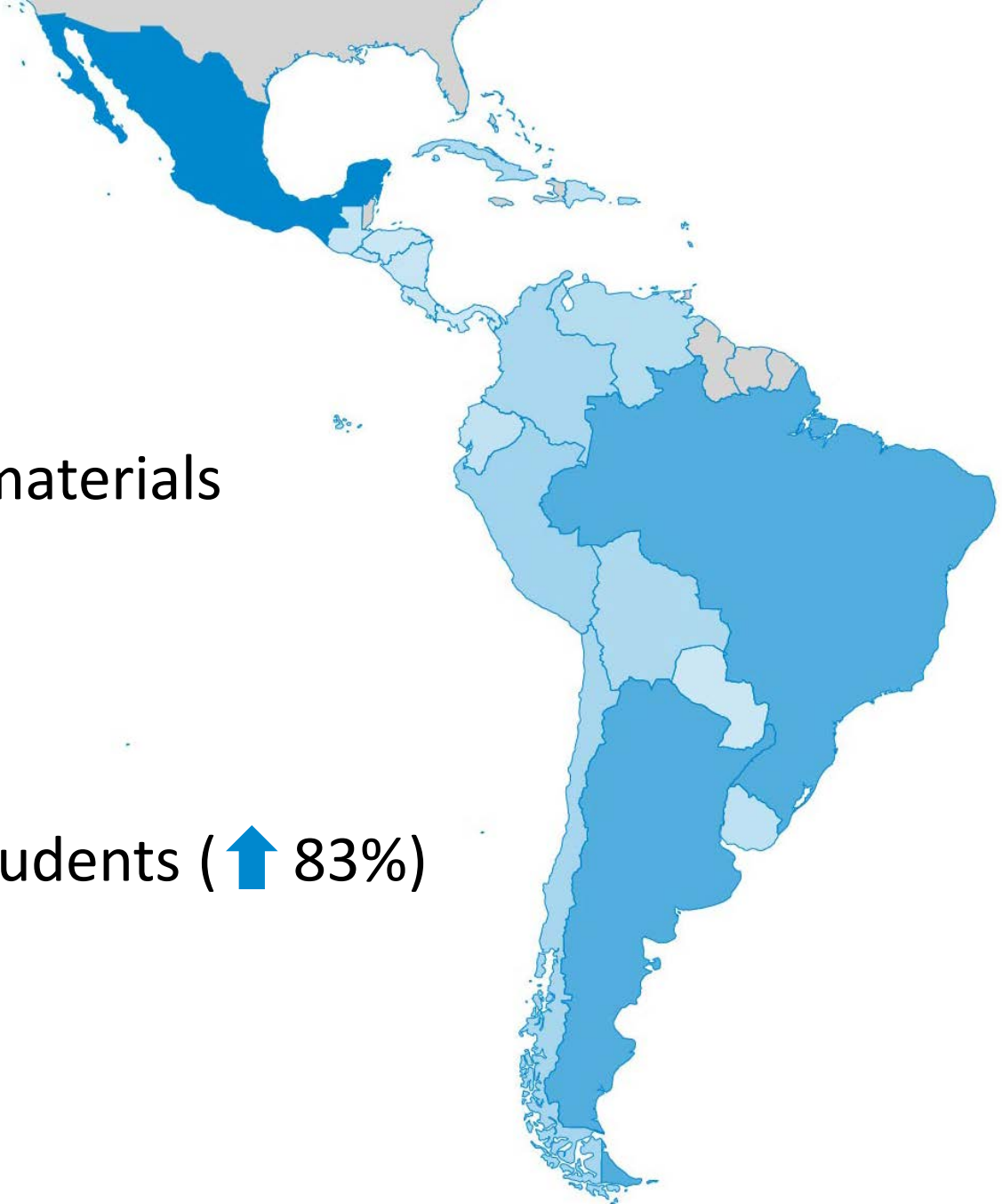
88% books or chapters

82% loans/returnables (↑ 53% overall)

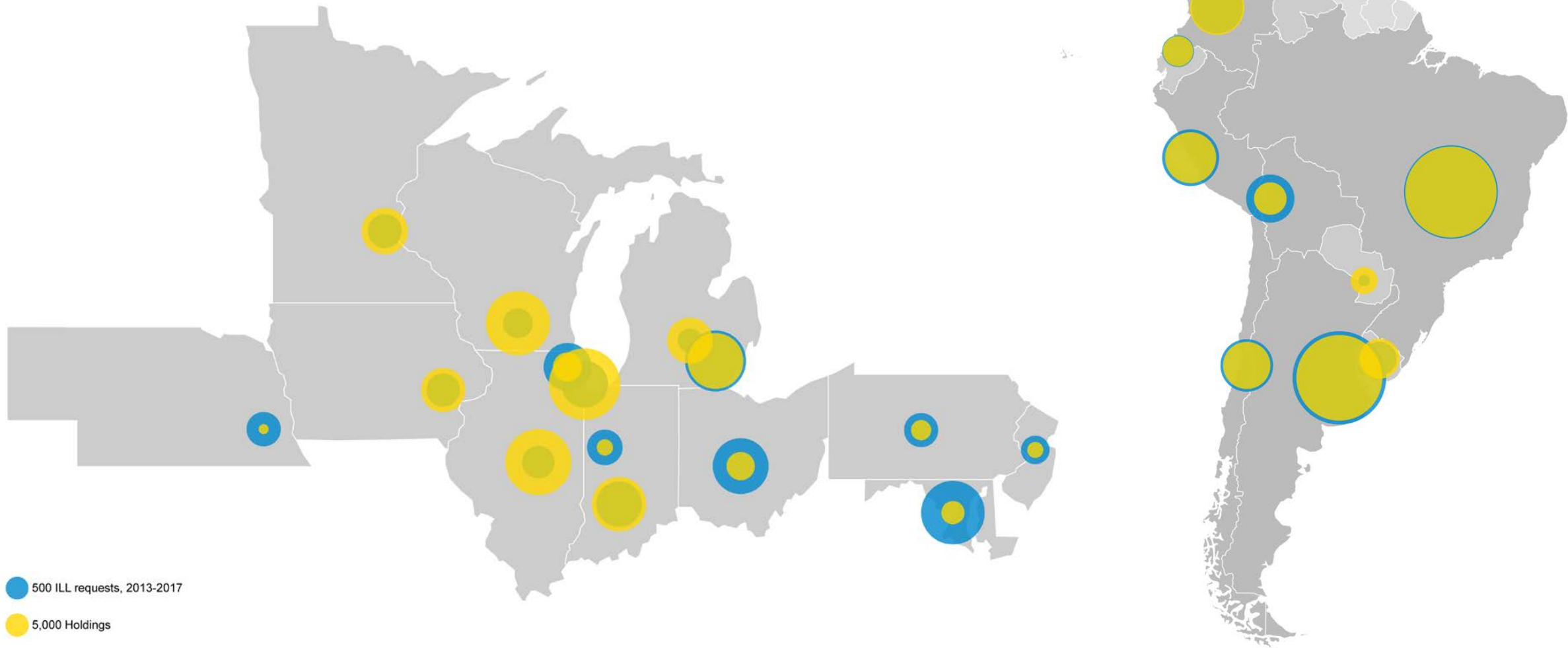
91% requested by faculty or graduate students (↑ 83%)

90% filled (↑ 84% overall)

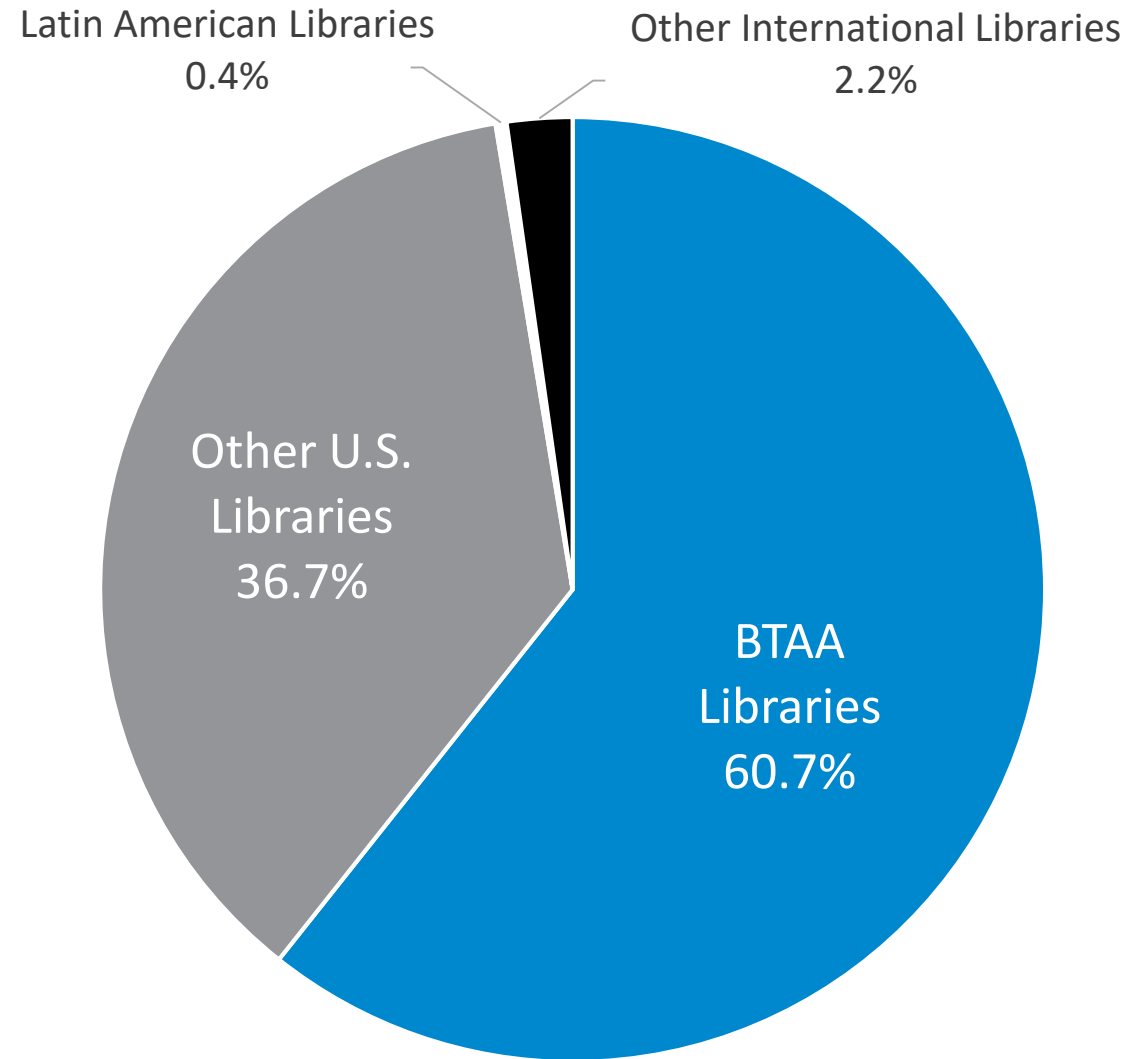
9% locally owned (↓ 30% UBorrow)



Results: Borrowing Library, Country of Publication



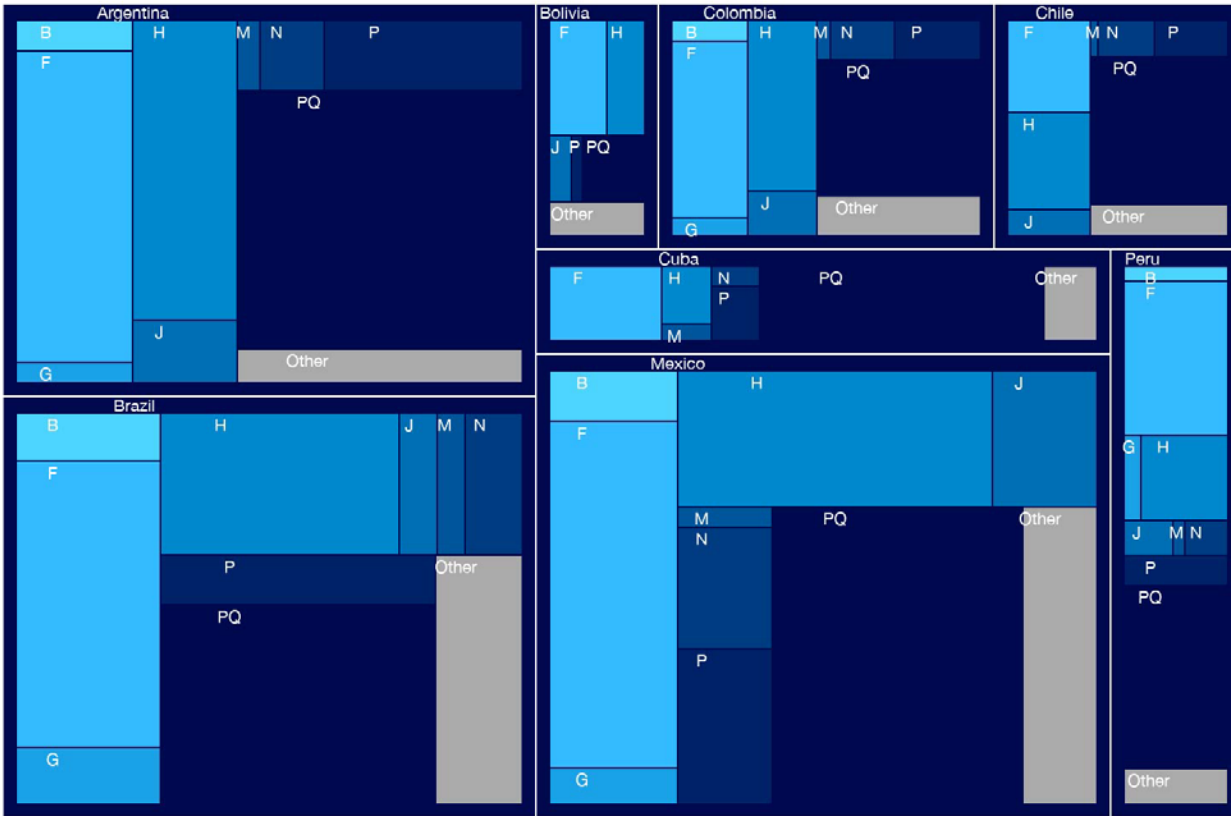
Results: Lending Library



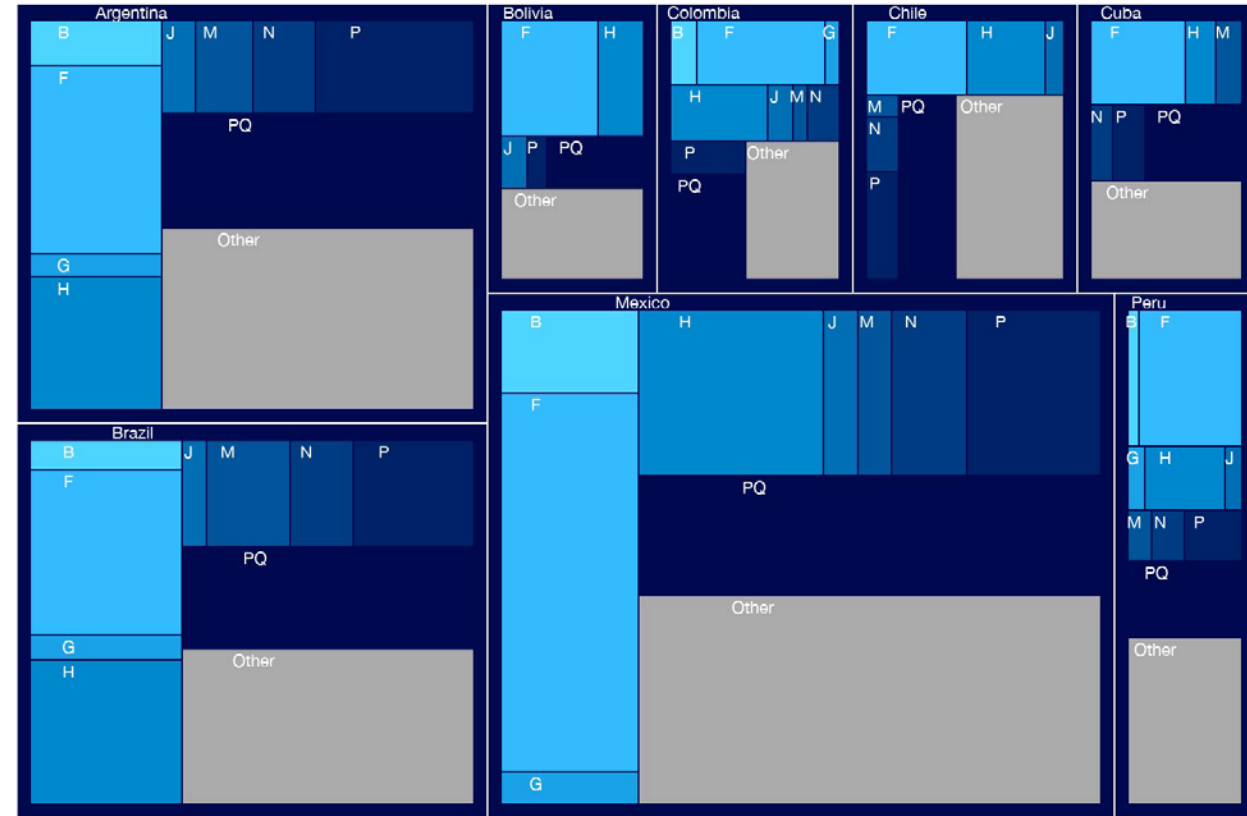
Latin American libraries filled only 99 requests for BTAA libraries

(> 3 requests per library per year)

Results: Classification



BTAA Latin American Holdings, 2006-2016



BTAA Latin American ILL Requests, 2013-2017

Results: Duplication

Greatest Duplication:

- Classification: F (History)
- Country/Division: Cuba/West

Lowest Duplication:

- Classification: N (Fine Arts)
- Country Division:
Bolivia/East and Chile/East

Over 60% duplication:

- Cuba-West-H
- Cuba-West-P
- Peru-West-F
- Chile-West-J

Applying the Results



Questions?

Lisa Gardinier

lisa-gardinier@uiowa.edu

Manuel Ostos

manuel.ostos@psu.edu

Austin Smith

afsmith@umd.edu

Hilary Thompson

hthomps1@umd.edu

