# A Geographical Representation of WorldCat Resources: A Decision-Making Tool for Acquisitions and Collection Management

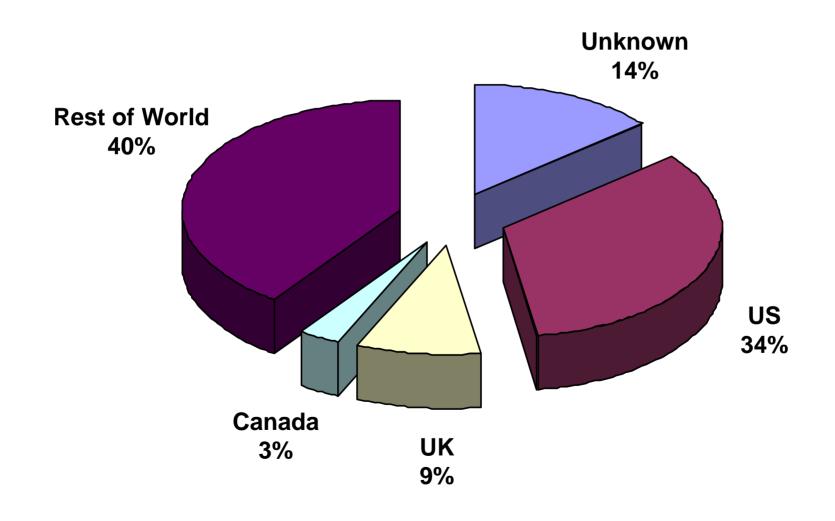


Lynn Silipigni Connaway Larry Olszewski OCLC Charleston Conference November 10, 2006

## Materials Represented in WorldCat

- WorldCat
  - More than 75 million bibliographic records
    - Publication information
      - Place
    - Subject information
    - Language of item
  - More than a billion holdings
  - More than 10,000 member libraries contributing

## Origin of Materials Represented in WorldCat



# OCLC WorldMap™: Decision-making Resource

- Collection management
  - Cooperative collection development
  - Comparative collection analysis
  - Collection assessment
  - Mass digitization
  - Off-site storage
  - Preservation
- Comparative library data
  - Funding
  - Assess cultural differences
  - Provide benchmarks
  - Authoritative vetted reference resource

## OCLC WorldMap™: Objectives

- Geographically represent library data from UNESCO, ARL, and NCES
  - Number of libraries
  - Amount of library expenditures
  - Number of volumes and titles
  - Number of librarians
  - Number of users

## OCLC WorldMap™: Objectives

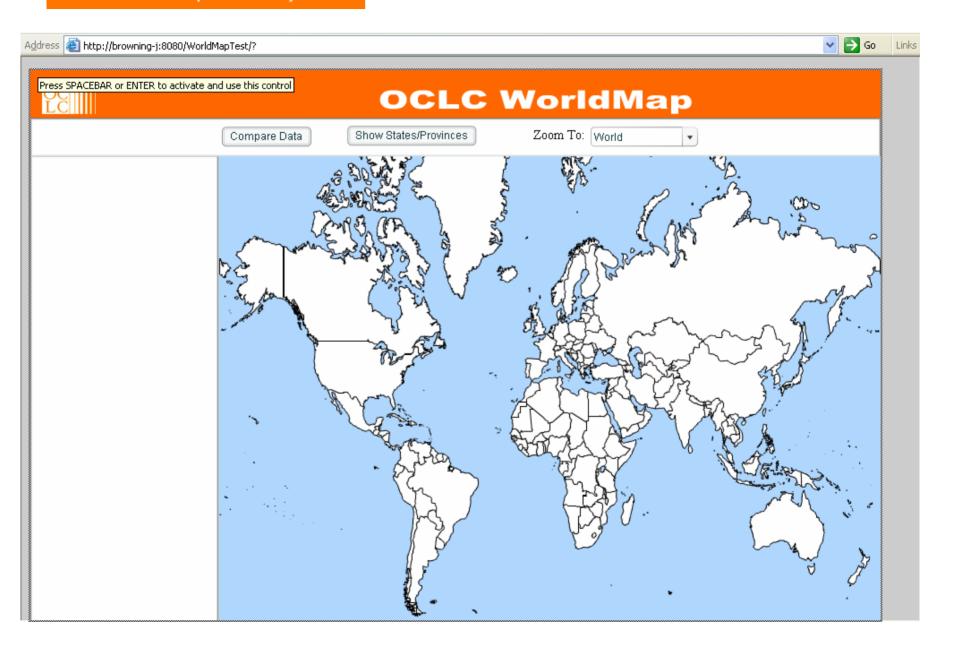
- Research prototype
  - Test geographical representation of WorldCat
    - Titles and holdings by country of publication
  - Support data mining research area
    - Visually display mined data to ease review and analysis
      - Internal use
        - Sales and marketing
      - External use
        - Library collection assessment and comparison
  - Complement the AAU/ARL Global Resources Network project
    - Project of the Council on Library and Information Resources (CLIR)

# OCLC WorldMap™: Data Mining

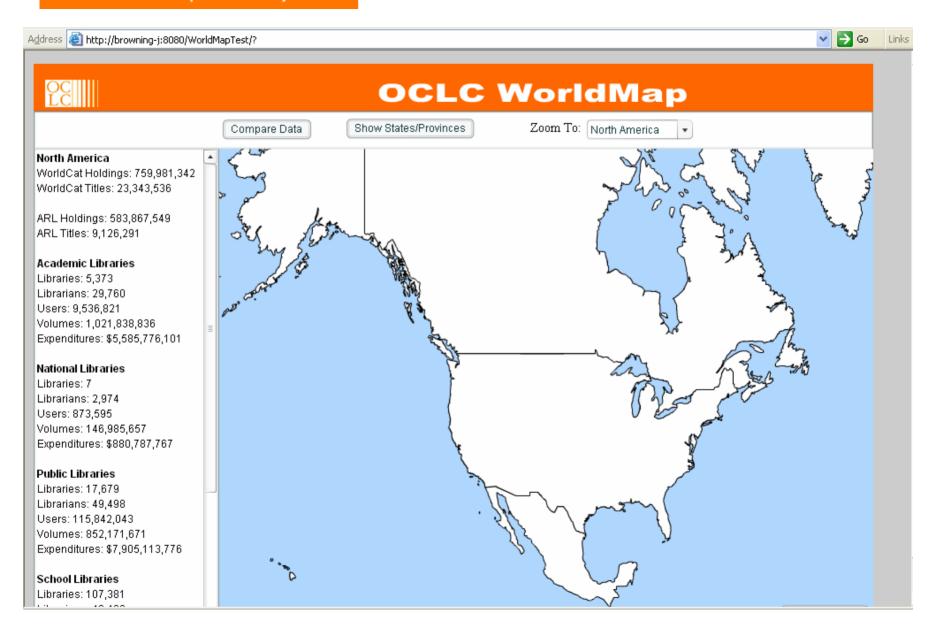
- Decisions
  - Independent vs. dependent
  - Administrative units vs. service points
  - Inconsistent data categories
  - Unknown date for source data
- Challenges
  - Absence
  - Currency
  - Accuracy
    - Manual tabulation

# OCLC WorldMap™: Technology

- First implemented SVG
  - Open standard maintained by W3C
  - Simple XML file
  - Young technology
  - Browser support limited
  - Requires plug-in
- Converted to Flash
  - Browser compatibility
  - Plug-in compatibility (if a plug-in was installed!)
- For a detailed comparison of SVG and Flash, see:
   <a href="http://www.carto.net/papers/svg/comparison\_flash\_svg/">http://www.carto.net/papers/svg/comparison\_flash\_svg/</a>

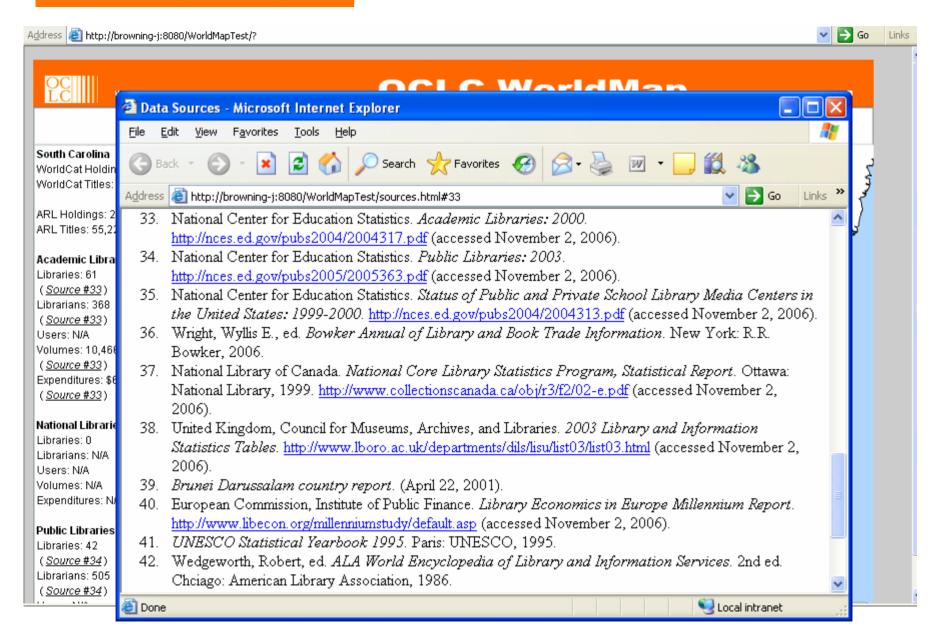


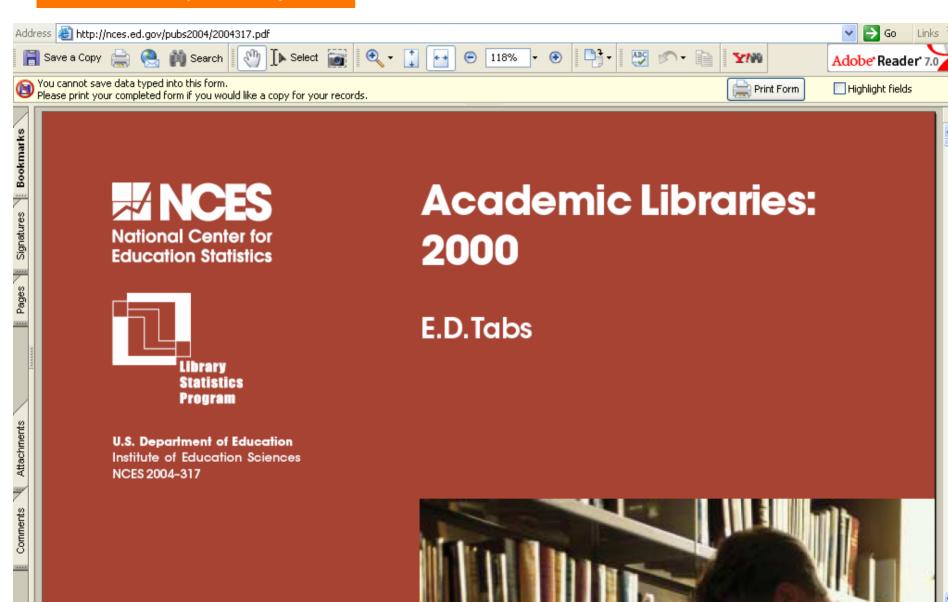


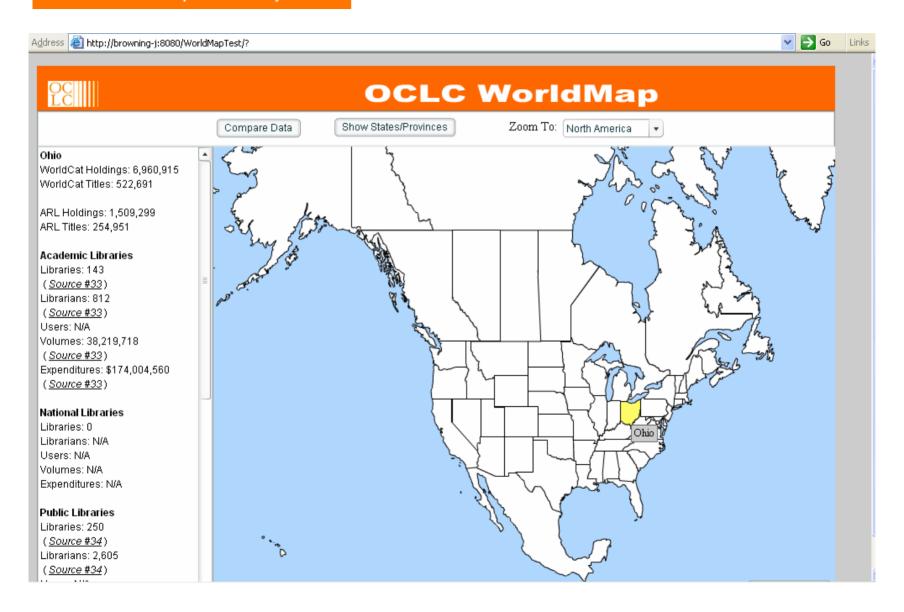


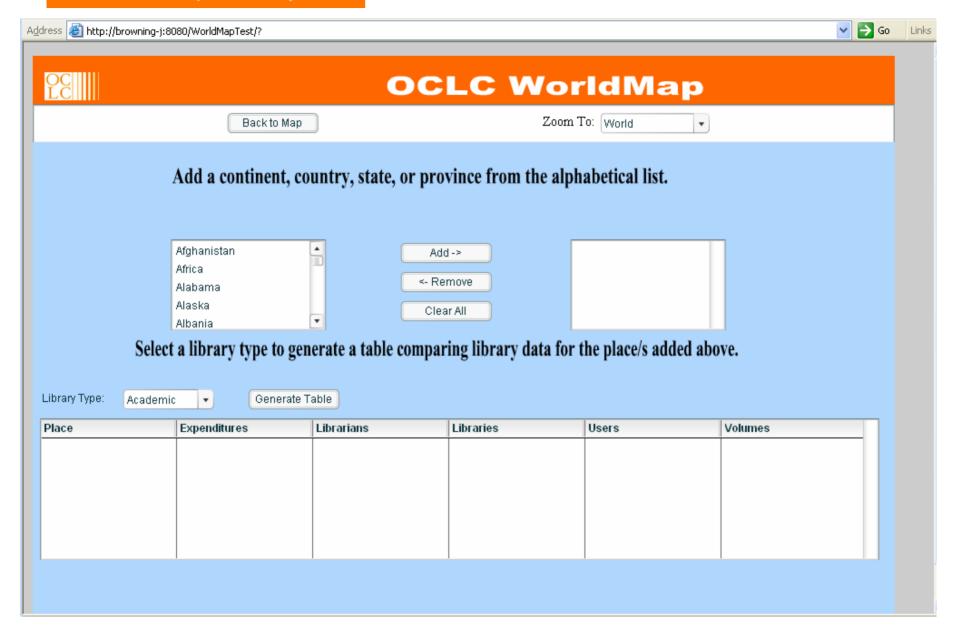


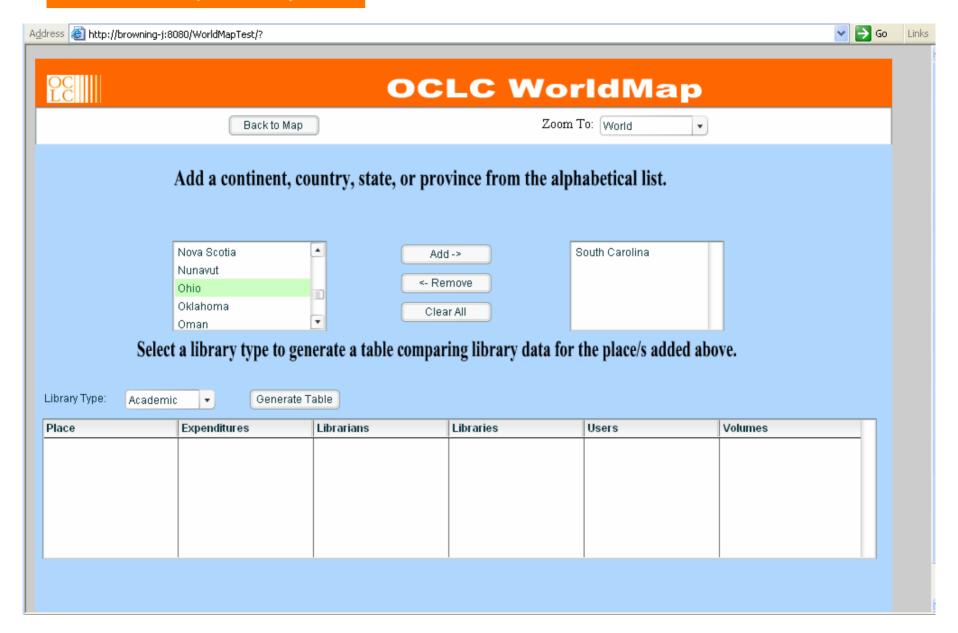




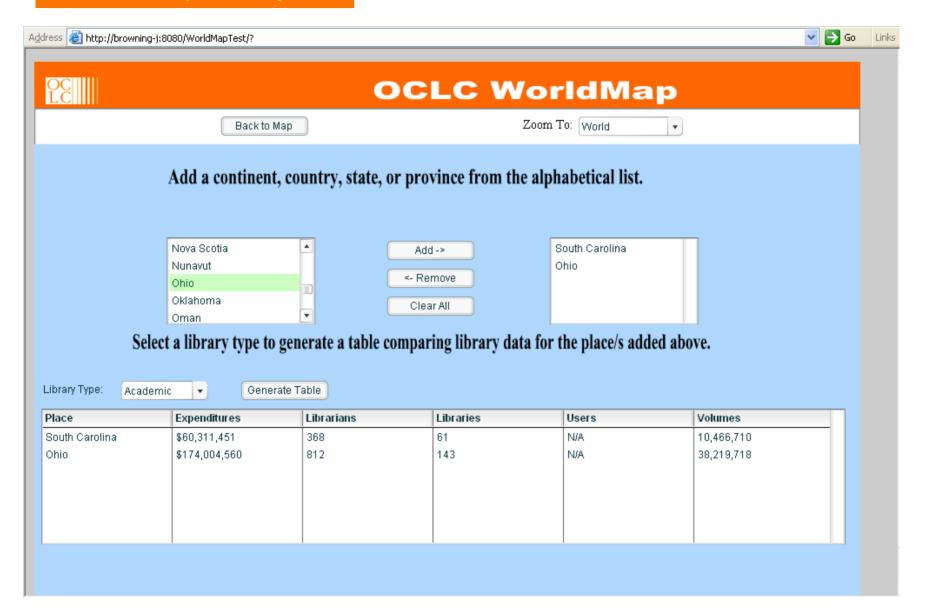




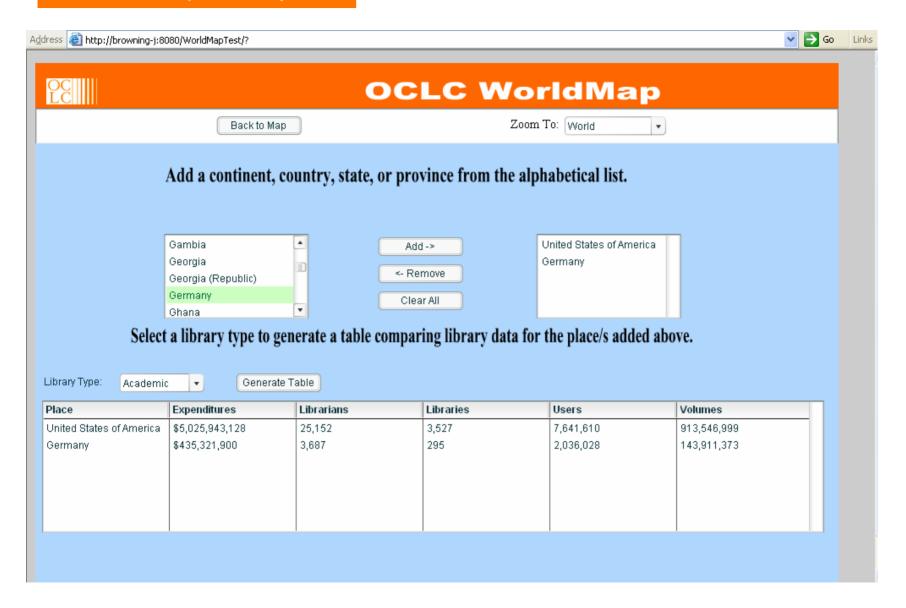












## Some aspects of "Global WorldCat" ...



Content Languages: 476

43% of WC non-English

Top 5 non-English:

German: 4.5 million

French: 4.2 million

Spanish: 2.9 million

Dutch: 2.1 million

Chinese: 1.6 million



Materials w/non-US origins:

35.3 million (52%)

**Top 5:** 

UK: 6.1 million

Germany: 4.0 million

France: 2.9 million

Netherlands: 2.2 million

Canada: 2.1 million



Non-English Metadata Language:

9.3 million (20 languages)

**Top 5:** 

Dutch: 4.1 million Japanese: 0.7 million

French: 1.4 million Finnish: 0.7 million

German: 1.0 million

## Possible Future Enhancements

- Subject information "aboutness"
- Language of item
  - Content language
  - Metadata language
- Holdings by country of library
- Other?

#### Presentation will be available at

http://www.oclc.org/research/presentations/default.htm

## Prototypes available at

http://www.oclc.org/research/researchworks/default.htm

## **Questions and Discussion**

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