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GIS and Data Curation Librarianship: Mobile Dissemination of GIS Resources

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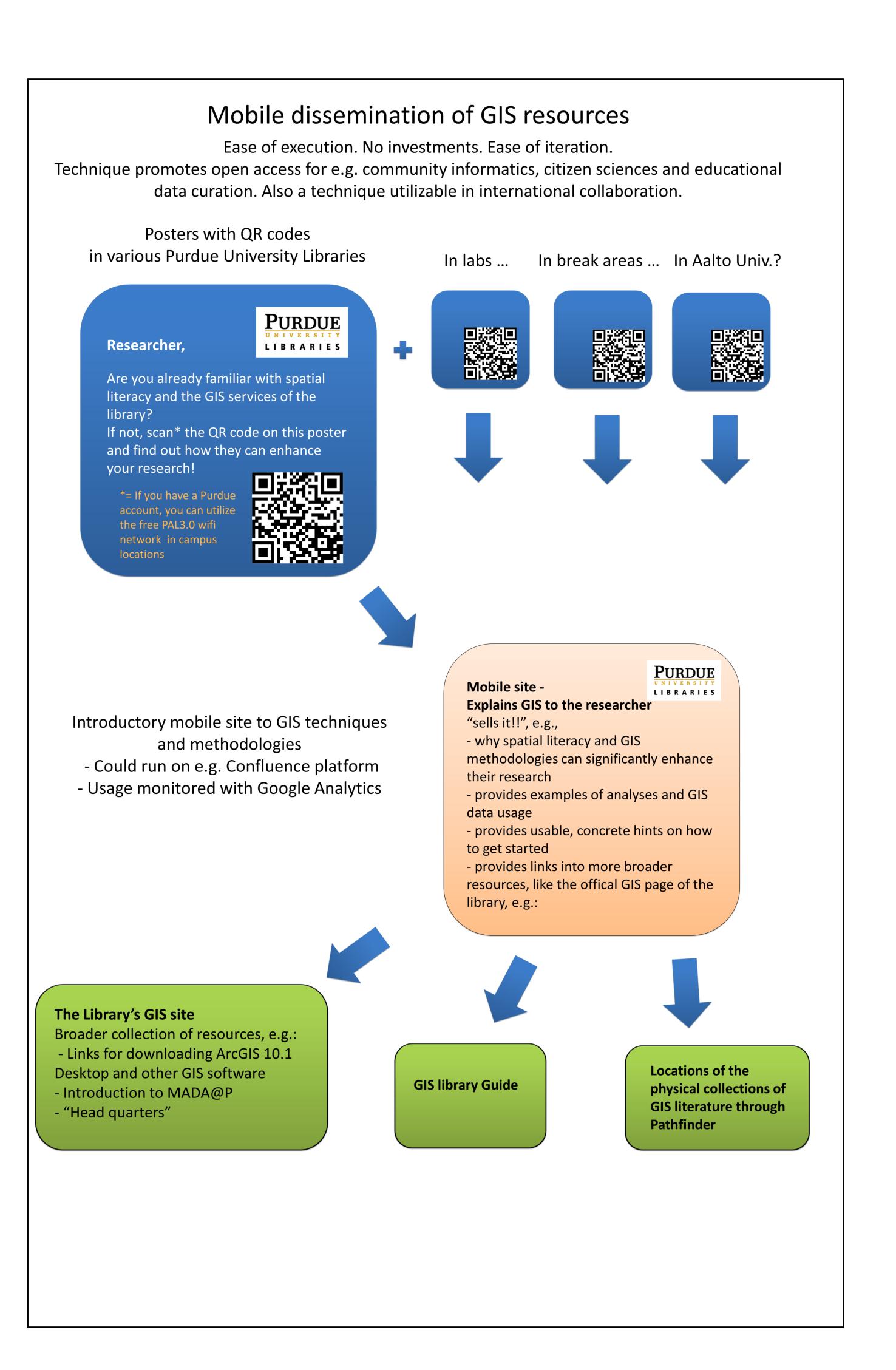
Branch, Benjamin D.; Kong, Nicole; Fosmire, Michael; and Rousi, Antti M., "GIS and Data Curation Librarianship: Mobile Dissemination of GIS Resources" (2013). *Libraries Faculty and Staff Presentations*. Paper 72. http://docs.lib.purdue.edu/lib fspres/72

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GIS and Data Curation Librarianship: Mobile dissemination of GIS resources Authors: Benjamin Branch, Nicole Kong, Michael Fosmire, Antti M. Rousi

DataONE Users Group 2013 Meeting, Chapel Hill, NC, July 7-9, 2013

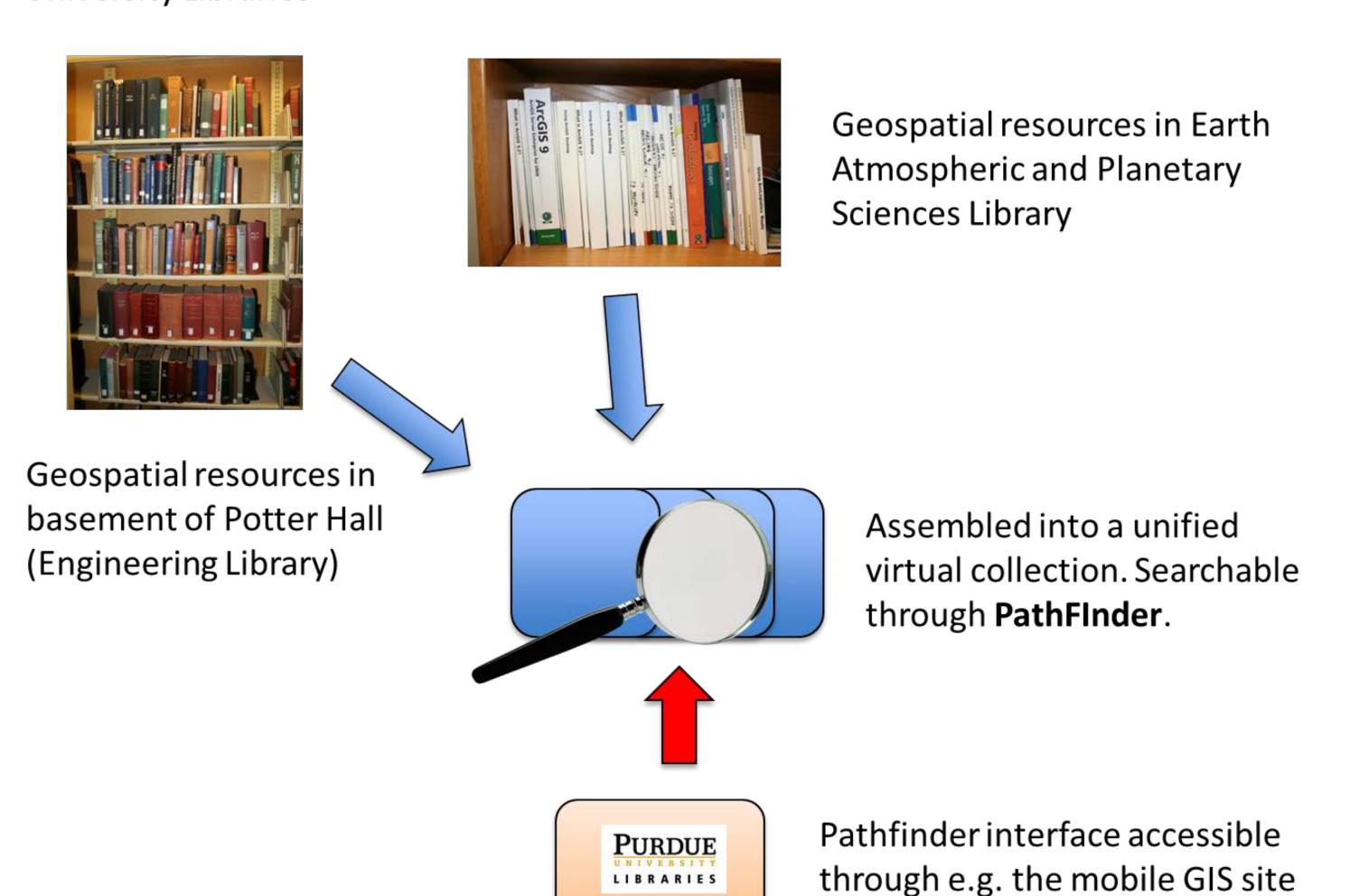
Abstract- The Purdue University Libraries' GIS department is working to advance geospatial services campus wide. In addition to conducting data curation profiles research in an IRB approved manner, we aim to validate new ways and means to make GIS services viable for large and diverse student and faculty community of over 40,000 students, all departments and along interdisciplinary boundaries. Here is a prototype of our mobile dissemination GIS of services and development in collaboration with Aalto University Library. Here, we discuss in a 3-fold manner how the GIS Dept. has prototyped a means of mobile GIS knowledge dissemination towards the development of library-led campus wide geospatial data services for future considerations. Such may offer timely and low cost data navigation of GIS resources using one's smartphone or tablet device.



Making a Virtual collection for separate physical library resources

Library Logistics – Too often library materials, books, prints, media are in a distributed manner all over a campus of a university. Hence, this interface allows a virtual collection and referencing system that leads to all physical geospatial resources via our Wiki prototype that is fully accessible via smartphone use at a low or negligible cost. Here, one may see our resources on geospatial issues in separate areas. We are working on a prototype site that implements a **Pathfinder** approach of geospatial resources

Separate physical geospatial resources located in different Purdue University Libraries



The concept of Pathfinder was development in the 1960 by Patricia Knapp*. Its purpose is to assist and direct patrons to the appropriate library resources. In our case, we are working to prototype a mobile device capacity to our pathfinder implementation of geospatial resources.

References

*Hemmig w (2004), Online pathfinders, Emerald Research Register, 33(1), www.emeraldinsight.com/0090-7324.htm

Data Management Profiles Research

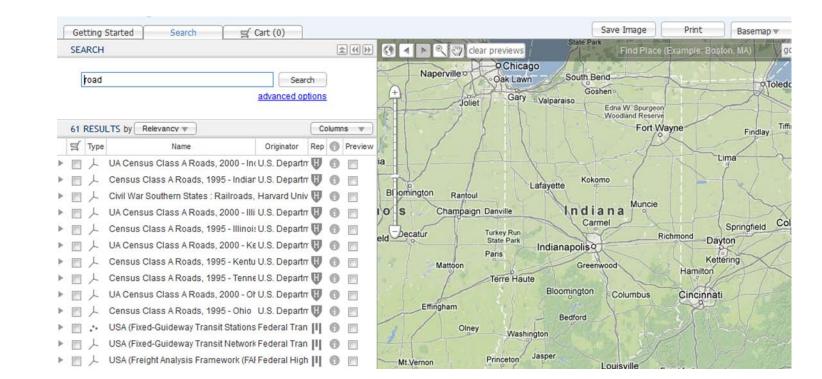
As a continuation of research lead by Jake Carson on Data Curation Profiles research used to provide empirical data for library data services our 2013 task of geospatial data collection does such to generate profiles addressing the geospatial community and its needs warranted via such IRB approved research. Hence both the smartphone use with Qr codes and a pathfinder for separately located resources may be considered a means for libraries to assists in patrons in accessing campus wide resources in cost effective manner and furthering scholarly research, student learning and advancing institutional competitiveness.

Project Status-An IRB ground theory approach with 32 interviews.

Project started 1/5/2013
Data Collection Completed 4/15/2013
Data Preparation for Analysis-Ongoing
Data Management Profile Generation-TBD
Data Analysis-TBD
Finding and Presentation-TBD

Practical Application- Here is a formal geospatial web

interface that may be aligned or justified with the mobile dissemination pathfinder effort.



Research Purpose

- -To identify data lifecycle habits of geospatial data campus wide
- -To incite research towards statistically parametric grounded theory for campus data services development
- -To identify gaps and sustainability in geospatial technology and assessment for future library services

Research Implications

- -Offer rapid Pathfinder mapping to online and areas geospatial resources and complement formal geospatial portals
- -Strengthen disciplinary geospatial resources and roadmap such development -Baseline or normal infrastructure budget to support geospatial library services and necessary data science training
- -An estimation of \$20-40 million in campus geospatial research may justify a data science orientated geospatial team approach to larges scale librarian data services.





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*acknowledgements

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