

# Persistent Identifiers

In-house Systems *vs.* External Registries

Joanna McCloud  
Johns Hopkins University  
MARAC Fall Meeting 2016



# Just what *is* a Persistent Identifier (PID)?

- Unique & adaptable
- Actionable
- Permanently assigned
- Provides authentication





# In-house Systems vs. External Registries

## In-house

- Less expensive
- Complete control
- Un-sharable inside & outside

## External Registries

- Actionable & interoperable PIDs
- Technical support
- Data backup
- Objects directed globally
- Broken links
- Data migration problems
- Cost



# External Registries

## **PURLs**

- Persistent Uniform Resource Locators

## **DOIs**

- Digital Object Identifiers

## **ARKs**

- Archival Resource Keys





# PURLs

---

- Persistent Uniform Resource Locators
- <https://purl.oclc.org/docs/index.html>
- **Example:** <http://purl.fdlp.gov/GPO/gpo54200>
- United States Government Printing Office
- National Library of Australia
- Florida Center for Library Automation



# DOIs

---

- Digital Object Identifiers
- [www.doi.org](http://www.doi.org)
- Example: doi: 10.12026/april2015
- Library of Congress
- American Psychological Association
- MIT Press





# ARKs & EZID

---

- Archival Resource Keys
- <https://wiki.ucop.edu/display/Curation/ARK>
- Example: <http://ark.cdlib.org/arkspec.pdf>
- EZID: <http://ezid.cdlib.org/>



# Link Testing - External Registries

## December 2015

- PURLs 80%
- DOIs 95%
- ARKs 95%

## October 2016

- PURLs 85%
- DOIs 95%
- ARKs 95%





# PIDs - the Future of Digital Assets

---

- Institutions will continue to move away from in-house systems
- External registries will become the norm
- Greater global sharing of assets



# References

Ducut, E., F. Liu & A. Ali. (2008, June). An update on Uniform Resource Locator (URL) decay in MEDLINE abstracts and measures for its mitigation. In *BMC Medical Informatics and Decision Making*, 8(23), 1-8. doi: 10.1186/1472-6947-8-23

EZID. Retrieved from <http://ezid.cdlib.org/>

Hilse, H.W., J. Kothe. (2006). *Implementing Persistent Identifiers: Overview of concepts, guidelines, and recommendations*. Consortium of European Research Libraries, European Commission on Preservation and Access, 17-35. Retrieved from

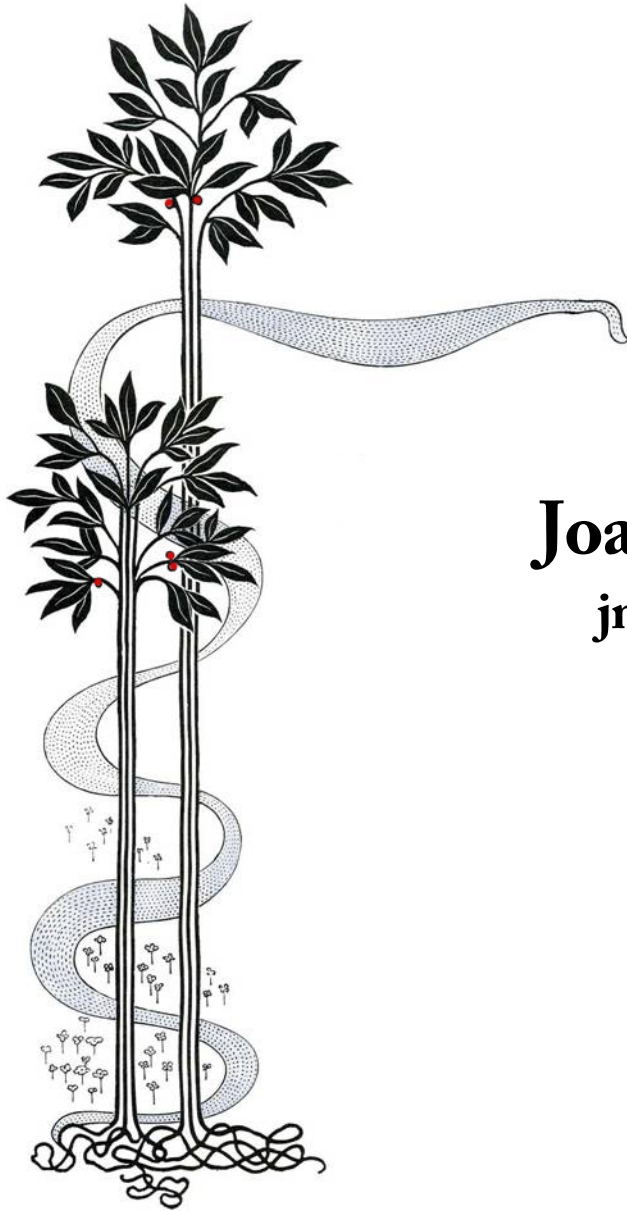
[http://webdoc.sub.gwdg.de/edoc/ah/2006/hilse\\_kothe/urn%3Anbn%3Ade%3Agbv%3A7-isbn-90-6984-508-3-8.pdf](http://webdoc.sub.gwdg.de/edoc/ah/2006/hilse_kothe/urn%3Anbn%3Ade%3Agbv%3A7-isbn-90-6984-508-3-8.pdf)

International DOI Foundation. Retrieved from [www.doi.org](http://www.doi.org)

Online Computer Library Center. Retrieved from <https://purl.oclc.org/docs/index.html>

Tonkin, E. (2008, July). Persistent identifiers: Considering the options. Retrieved from <http://www.ariadne.ac.uk/issue56/tonkin/>

University of California Office of the President. Retrieved from <https://wiki.ucop.edu/display/Curation/ARK>



**Joanna McCloud**

**[jmcclou1@jhu.edu](mailto:jmcclou1@jhu.edu)**