It’s About Time We Talk About Infrastructure:
What we need to put in place to effectively manage Open Access

Todd A. Carpenter, NISO Executive Director
STM Association: Beyond Open Access
December 5, 2014 - London, UK
About

• **Non-profit** industry trade association accredited by ANSI with 200+ members

• Mission of **developing and maintaining technical standards** related to information, documentation, discovery and distribution of published materials and media

• **Volunteer driven** organization: 400+ from dozens of countries

• **Represent US interests to ISO** (TC 46) and also serve as **Secretariat** for ISO Subcommittee on Identification & Description

• Responsible at a variety of levels for standards like **ISSN, DOI, Dublin Core** metadata, DAISY digital talking books, OpenURL, MARC records, **SUSHI**, and **ISBN**
We hate discussing infrastructure
More Mandates

Data from Registry of Open Access Repositories Mandatory Archiving Policies (ROARMAP) [http://roarmap.eprints.org](http://roarmap.eprints.org)
Executive Office of the President
Office of Science and Technology Policy
Washington, D.C. 20502

February 22, 2013

Memorandum for the Heads of Executive Departments and Agencies

From: John P. Holdren
Director

Subject: Increasing Access to the Results of Federally Funded Scientific Research

1. Policy Principles

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data.

Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insights and are assets...
Percentage of articles published as OA

Infrastructure to support subscriptions

Agents
EDI payments
ONIX for Serials
COUNTER
Journal Selection processes
Cataloging Systems
Discovery Systems
Resolution Systems

Changes, to be sure:
• 1998 - 98% of subs went through agents
• 2012 - only 45% processed through agents
• But today balance is primarily “big deals”
WHO'S IS PAYING APCS (AND HOW?)

Figure 6: Who currently provides the funding for open access article processing charges (APC) at your institution? (Respondents asked to select all that apply)

Can we all agree that universities worldwide won’t want to process $4.3 billion on departmental credit cards? Or publishers?
OPEN ACCESS METADATA

LET’S START SOMEWHERE SMALL
Open Access and Metadata Indicators (OAMI) PROJECT
Open Access and Metadata Indicators (OAMI) PROJECT
Access and License Indicators (ALI) PROJECT
Working Group Members

Note: Logos represent WG members. It does not imply institutional support for the project or its output.
“open access” is politically fraught

Won’t use this label - Changed the name of the project to “Access & Licenses Indicators”, dropping “Open” from the title

Factual information:

Is a specified work free to read — can it be accessed by anyone who has access to the Web?

What re-use rights are granted to this reader?

Minimal set of metadata needed

Decided not to create/recommend a logo
Encoding licenses is also not easy

CC-0
CC-BY
CC-BY-NC
CC-BY-SA
<ONIX-PL>
<free_to_read> Tag

Indicates content can be read or viewed by any user without payment or authentication
Simple attribute of “yes” or “no”
Optional start and end dates to accommodate embargoes, special offers, etc.

<free_to_read="no" start_date="2014-02-3" end_date="2015-02-03"/>
<free_to_read="yes" start_date="2015-02-3"/>
<license_ref> Tag

Content of this tag would include a stable identifier expressed as an HTTP URI. URI would point to license terms that are human and/or machine readable. Multiple URIs can be listed if article exists under specific license for certain period of time and then changes.

<license_ref start_date="2014-02-03">http://www.psychoceramics.org/license_v1.html</license_ref>
<license_ref start_date="2015-02-03">http://www.psychoceramics.org/open_license.html</license_ref>
Distributing Metadata

Who? Publishers, aggregators, content providers
Include the metadata in all standard metadata sets
  Intended that this population/distribution will become part of standard editorial and production workflows
Could also include in alerts such as e-TOCs and RSS feeds and A&I feeds
Potential Use Cases - Users

- Discovery of and access to OA material via a Meta-index
- Provide readers clear understanding of access status
- Improve General public/non-professional researcher understanding of access status
- Make visible to researchers a basic understanding of re-use permissions
Potential Use Cases - Content Providers/Aggregators

- Use of content, for repositories
- Text-mining content
- Conflicting OA licensing statements made when article metadata supplied to repositories
- Potential discovery of and access to OA articles in hybrid journals
- Depositing research/articles in IR
- Producing DOI/citation for OA items
Potential Use Cases - Funder, government, and institutions

- Support greater demand by funders for tracking policy compliance
- Allow for automated reporting on policy compliance or performance
Status

• Distributed as a draft for public comment January-February 2014
• Received more than 120 comments (4X more than a typical draft)
• Committee spent past 8 months working through comments
• Final editing and preparation for final approval by NISO Discovery to Delivery Topic Committee
<CAVEAT>

I am not (nor is NISO) advocating for Open Access

Not for more, greater, freer, or cheaper Open Access
But if publishers are going to adopt Open Access models, the community needs to be able to machine process that fact (as well as those transactions).
A Bit More Information

• NISO Workroom: www.niso.org/workrooms/ALI/

• Scholarly Kitchen: http://scholarlykitchen.sspnet.org/2012/12/05/as-hybrid-open-access-grows-the-scholarly-community-needs-article-level-oa-metadata/

• Serials Review: http://dx.doi.org/10.1016/j.serrev.2013.02.001 (subs Req’d)
Summer 2014

Information Standards Quarterly

Special issue on

Open Access Infrastructure

Guest edited by Liam Earney (JISC)

Available Open Access - i.e., free to read

doi: 10.3789/isqv26no2/
We have a long way to go…
Let’s get started
Thank you!

Todd Carpenter, Executive Director
tcarpenter@niso.org
National Information Standards Organization (NISO)
3600 Clipper Mill Road, Suite 302
Baltimore, MD 21211 USA
+1 (301) 654-2512
www.niso.org