

Making Open Access stick: developing overlay services for authors and readers

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Outline

- The green road to Open Access as self-archiving of the author's post-print is possibly a dirt road only, but for the circulation of working papers and pre-prints might be a viable byway
- The gold road to Open Access may lead to a goldmine for biomedicine publishers, but it also might be a fata morgana only for all fields in which pre-prints may be disseminated inexpensively
- Digital libraries and repositories should take on the functions of electronic registration, dissemination and archiving, while publishers might best concentrate on certification and navigation services

Outline (ctd.)

- The way to make open science compatible with the knowledge-based economy is through the non-exclusive licensing of research articles and data to all interested commercial parties, publishers included
- Overlay services to digital libraries and repositories, such as 1) usage and impact metrics; (2) citation and co-citation tracking; (3) data and text mining; and, (4) concept formation and semantic enrichment are vital to the progress of science by self-observation and differentiation, but require that research publications and data are available from digital libraries and repositories on a non-exclusive basis

Background

- Armbruster, Chris, "Cyberscience and the Knowledge-Based Economy, Open Access and Trade Publishing: from Contradiction to Compatibility with Nonexclusive Copyright Licensing" (October 2006). Available at SSRN:
<http://ssrn.com/abstract=938119>
- Armbruster, Chris, "Society Publishing, the Internet and Open Access: Shifting Mission-Orientation from Content Holding to Certification and Navigation Services?" (July 2007). Available at SSRN:
<http://ssrn.com/abstract=997819>

Green Road - more problems than solutions?

- Duplication and parallel archiving creates extra costs and 100% Green OA would be expensive
- Green OA repositories hold only inexact copies of the toll access publisher's original
- The functionality and value of Green OA repositories is limited severely

Gold Road - leading reform?

- The gold road is a sustainable avenue of publishing reform insofar as funds for publishing are available
- Gold OA publishers may mistakenly seek to assume all functions from registration to archiving, driving up costs
- It's the first copy costs: on the difference between \$3500 and \$1500 and \$5.

Functions of publishing

- Registration
- Certification
- Dissemination
- Archiving
- Navigation (overlay services)

Nonexclusive licensing and the future of repositories

- Repositories (and digital libraries) take care of registration (pre-print deposit) as well as dissemination and archiving (holding the final published version)
- Publishers provide service: certification (peer review) and navigation (overlay services)
- Markets for certification and navigation become competitive through standard nonexclusive licensing

Overlay services

- Functionality and value of services?
- Corpus and quality?
 - Usage and impact metrics
 - Citation and co-citation tracking
 - Data and text mining
 - Concept formation and semantic enrichment