

STRATEGIC INTEGRATION OF ARTICLE CONTENT: SUPPLEMENTAL MATERIALS

Linda Beebe
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AMERICAN
PSYCHOLOGICAL
ASSOCIATION

COLLISION OF 2 WORLDS





Explosion of—

- ▶ Research
- ▶ Data
- ▶ Accrued Knowledge

Increased Requirements

- ▶ Funding Bodies
- ▶ Reporting Standards

Supplemental Material the Solution?

- Give author opportunity to expand on their research.
- Improve science by giving easy access to data needed to verify or replicate study at little additional cost.
- Enhance reporting of science with multi-media.
- Looked to technology to solve problems—but held print-centric views.
- No standards or best practices.

Outcome for the user?



- Lack of descriptive metadata
 - Discoverability issues
 - Lack of context
 - Concern about persistence
 - No clarity on citations
 - Some mystery in the main article about what is supplemental
- a maze, maybe not value-add taken as a whole.

Outcome for the publisher?

- Direct costs
- Diverted energies—
already crisis in peer review
- Tough decisions—
 - What is value-add?
 - Peer review dilemma,
quality vs workload?
 - Plan for migration?



NISO-NFAIS Working Group



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Challenges & Principles

- Wide variance in disciplines, types of content, citation systems
- Evolutionary time—need for “integral” supplemental will diminish.
- Readers vary in need for information.
- Need to look to the future, not limitations of the past.
- Recommended practices, not rules.

Three Types of Supplemental Material

	Hosted or Managed by the Publisher		Hosted Elsewhere
Content Type	Integral Content	Additional Content	Other Related Content
Text, figures, tables	Critical to understanding the work reported, but technical issues prevent inclusion in the article.	Expansion of article, added detail and context; provides a layered approach for readers with different information needs.	Not Applicable
Multimedia; chemical, crystal, and protein structures; computer algorithms; executables; and so on.	Critical to understanding the work reported, but technical issues prevent inclusion in the article.	Also expansion of article; provides a layered approach for readers with different information needs.	May be posted to repository as well as publisher site.
Raw Datasets	Not Applicable	Some journals post either in addition to a repository posting or in place of the repository.	Should be posted in repository if not with publisher or may be posted both places.

Recommended Practices Areas

1

- Selecting content—peer review; concern about relevance and utility

2

- Editing content—edit integral and additional or note as author supplied

3

- Presenting content—citing, citations, linking, context.

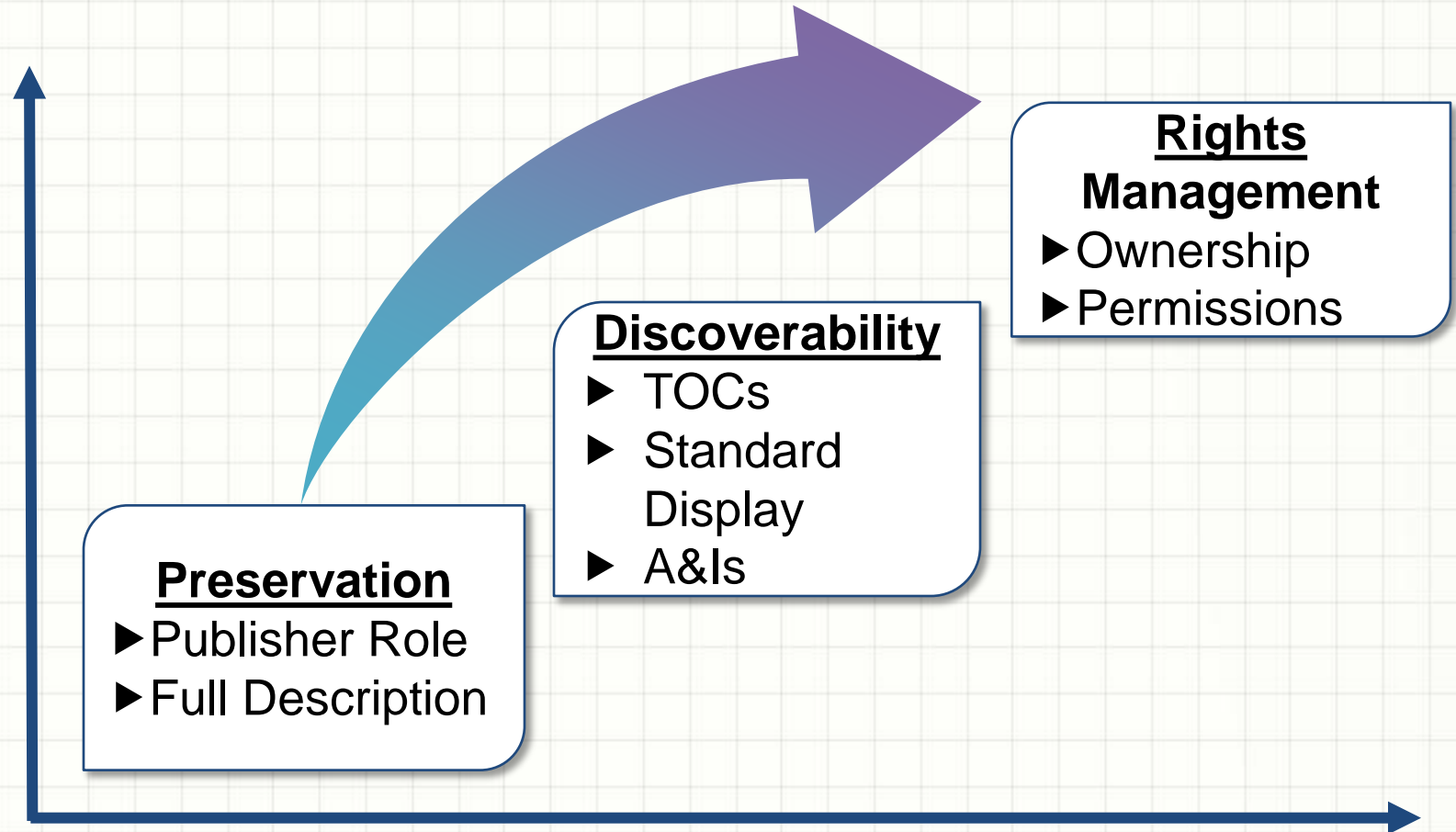
More on Presenting Content—

- Citing—recommend that Integral Content not be cited separately from article; Additional Content may be.
- Citations within materials—integrated for essential content; separate for others. No A&I pickup for cited references.
- Linking—persistent links (DOIs); bidirectional linking preferable for repositories.
- Context—clear metadata and contextual statement.

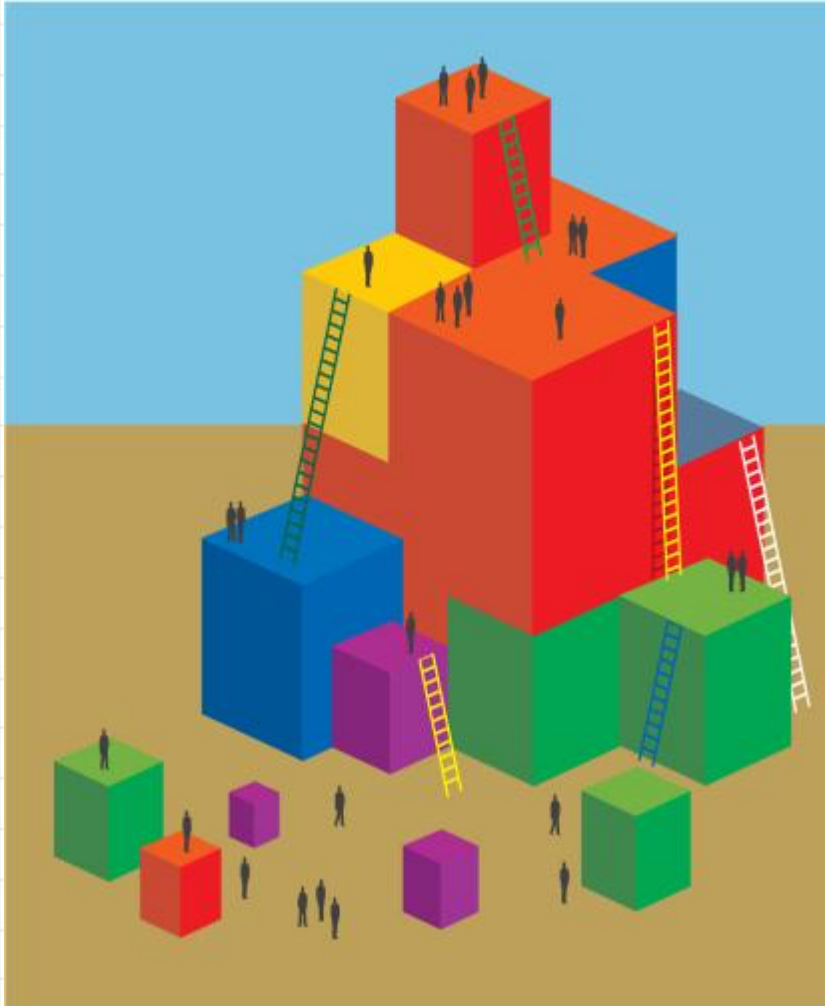
Sharing Data

- In interests of science and readers, collaborative sharing best practice.
- Requires clear metadata and explanations such as special coding instructions.
- Professional ethics around secondary analysis.
- Particular concern for studies with human participants.
- Preservation and persistent identifiers key.

Still to Come . . .



Building Blocks



- Finish draft BWG Recommended Practices.
- TWG on packaging, metadata, etc.
- Meld the two.
- Open Review
- NISO & NFAIS approve.
- Circulate for other approval.

NOW TO THE TECHNICAL ISSUES. . .

Linda Beebe
Senior Director, PsycINFO
American Psychological Association
lbeebe@apa.org

