STRATEGIC INTEGRATION OF ARTICLE CONTENT: SUPPLEMENTAL MATERIALS

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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?
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

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

- **Preservation**
  - Publisher Role
  - Full Description

- **Discoverability**
  - TOCs
  - Standard Display
  - A&Is

- **Rights Management**
  - Ownership
  - Permissions
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. . .

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