Reimagining Research Communication

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“Human knowledge is doubling every 13 months.”

Industry Tap
http://www.industrytap.com/knowledge-doubling-every-12-months-soon-to-be-every-12-hours/3950
Is having difficulty scaling
→ Uses unstructured, proprietary formats
→ Strips away and degrades data & materials
→ Is slow and costly
→ Relies on out-of-date, siloed, and precarious legacy infrastructure
Which is why Coko exists...
Publishing Today

Shuffling frustrating formats around
Typical publishing workflow today

Submit

Publisher Manuscript Submission System

External production:
- Offline proofing, XML coding

Publisher Web Delivery System:
- Static HTML and PDF placed online

Attachment Files (occasionally)

Attachment Files (occasionally)

Elapsed time: 4.5 to 9 Months

Other sites and repositories
Where we need to be...

Word to HTML

Flexible Web-based Workflow

Rapid review, revision and production
collaborative authoring environment
Submit
INK
Convert MS Word to HTML
Add Identifiers and tags
INK
Final identifiers and tags. References fully linked
Syndication via HTML, ePub, PDF, XML
INK
web delivery platform:
Fully networked, living article, continuously updated and assessed/discussed by readers

Elapsed time: 1 to 2.1 Months
Other sites and repositories
Where we need to be...

Networked Output

Shared output is linked set of files tied together with content or narrative
“We can't solve problems by using the same kind of thinking we used when we created them.”

Albert Einstein
How we get there...

Open Source
Sharing infrastructure
Collaboration
Flexible Frameworks

Closed Source
Siloed Tech
Isolated/insulated Orgs
Monolithic Platforms
Open Source

The technology is yours
You control the process
No more vendor lock-in
You can take the code and run
Your data and code are always available to you

Endless re-use
Leverage innovations
Design your technology
Others can build on it
Flexible service and business models
Collaboration across publishers

Create the public utilities of publishing
Flexible Frameworks

One size does NOT fit all
Reduce effort
Optimise as you go
Improve as you go
PubSweet Decoupled JS Framework

Monolithic
- admin
- dashboard
- editor
- publish frontend

Decoupled
- admin
- dashboard
- editor
- publish frontend
PubSweet Decoupled JS Framework

JavaScript
Decoupled
MIT
Many components already built
‘Assemble’ your system
# Science Blogger

## Blog Posts

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blog post title that’s really long and takes up space</td>
<td>Barbara</td>
<td>Unpublished</td>
<td></td>
</tr>
<tr>
<td>Short blog post title</td>
<td>Andrew McLongName-DoubleBarrel McGinty</td>
<td>Published Nov 23, 2015</td>
<td></td>
</tr>
<tr>
<td>Blog post title that’s probably too long and takes up a lot of...</td>
<td>Barbara</td>
<td>Unpublished</td>
<td></td>
</tr>
<tr>
<td>Short blog post title</td>
<td>Barbara</td>
<td>Unpublished</td>
<td></td>
</tr>
</tbody>
</table>
PubSweet Framework

Front Matter

- Preface
  - Upload Word
    - To Edit > To Review > To Clean

- Table of Contents
  - Upload Word
    - To Style > To Edit > To Review > To Clean

Body

- Hello Part 1
  - Upload Word
    - To Edit > To Review > To Clean

- 1. Untitled
  - Upload Word
    - To Style > To Edit > To Review > To Clean

- Next part
  - Upload Word
    - To Style > To Edit > To Review > To Clean

- 2. Untitled
  - Upload Word
    - To Style > To Edit > To Review > To Clean

- 3. blah
  - Upload Word
    - To Style > To Edit > To Review > To Clean