Coko: we build open source solutions to transform research communication
Proposal: Return scholarly communication to being a public good

An open ecosystem that ensures that the production, communication, access, and use of all research objects across the research cycle maximizes the global public good by being rapid, transparent, relevant, equitable, and inclusive.

Open Research Communication Strategy Roadmap: A report by Heather Joseph, Rebecca Kinneson, Cameron Neylon, Raym Crow, Kristen Ratan, and Helen Szigeti in April 2017
Coko believes...

No one platform can solve all the problems.
We need an ecosystem of tools and software.
We should build modular & interoperable things.
The community must create and own solutions.
The ecosystem is emerging
Open, modular architecture enables innovation and collaboration.
Collaboration in the browser
Collaborative Webspace

Research object at the center as the context or work changes

Automated
- Identifiers
- Tags
- Links
- Semantics

Research Object (HTML)

Tasks

TEXT, DATA, FIGURES, ANALYSIS, REFERENCES
Digital-first workflow with automation and collaboration tools

1. Word to HTML
2. Flexible web-based workflow
3. Rapid review, revision and production
The output must evolve
Networked Output

Shared output is a linked set of files tied together with content or narrative.
There is no one size fits all solution
coko Technology Suite

- Ingest & Conversion
- Enrichment
- Syndication
- INK Backend and Admin
- Authoring
- Web Editor
- Collections / TOC Manager
- Collaboration & annotation
- Production
- Dashboards
- Workflow
- Data Tools
- Web Delivery
- PubSweet Backend and Admin
Journals platform

- Ingest & Conversion
- Enrichment
- Syndication

- Authoring
- Web Editor
- Collections / TOC Manager

- Collaborative Editing / Peer Review
- Production
- Dashboards

- Workflow
- Data Tools
- Web Delivery

INK Backend and Admin
PubSweet Backend and Admin
PubSweet

Three platform use cases (so far)

Books

Journals

Micropublications

Collaborative Knowledge Foundation

Design     Development cycles     Testing     Launch
Community Led Open Source

- Broad Community
- Core OS project
- Core OS project
- Partnering tech organizations
- Early adopters
  - Code contributors
- First wave adoption
- Service providers
So far it’s working

Having other people build components to solve the problems you are facing is a great benefit of a common infrastructure.

but also knowing that what you’re building is useful to more than just your team really adds energy and purpose to our teams of developers and designers.

- Paul Shannon, eLife

An improvement for one becomes an improvement for all.

Individual communities can focus on core areas of expertise — peer review, hosting, discovery — knowing that their innovations will improve the entire system.

The result is more creativity, a more diverse set of solutions, and, ultimately, faster progress.

- Andrew Smeall, Hindawi
Community-built and owned OS is sustainable
Successful Open Source Projects

- **The internet:** TCP/IP (governing protocols), BIND (DNS resolver)
- **The Web:** 75% adoption of OS browsers (Chrome, Firefox), 50% of websites delivered by Apache web server, 70% of sites use WordPress, Joomla or Drupal as a CMS
- **Computers:** Android + Apple (built on OS BSD Kernel) have twice as much adoption as Windows
- **Phones:** Android, iOS (built on OS Darwin operating system) dominate
- **Cloud hosting services:** OpenStack has 17% market share against Amazon, Microsoft and Google
Shared Infrastructure

- Pooling resources to get more for your investment
  - Technology stack
  - Maintaining standards
  - New functionality
- Sharing the burden of keeping up and the benefit of new ideas
- Focusing on the layer that differentiates your organization
  - Content
  - Brand
  - Quality
  - People
Collaborative Knowledge Foundation

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