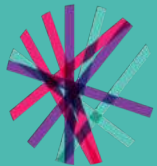


Collaborative Knowledge Foundation

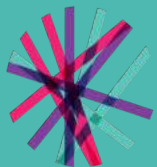
Coko: we build open source solutions
to transform research communication



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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.



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

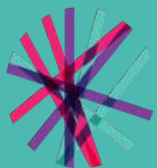
Coko believes...

No **one** platform can solve all the problems.

We need an **ecosystem** of tools and software.

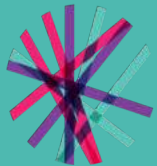
We should build **modular & interoperable** things.

The **community** must create and own solutions.



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The ecosystem is emerging



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The Open Ecosystem

Services

Pop-up
Publishing

Copy-
editing

Hosting

3rd Party
Peer
Review

Substance
library

Tool

DAT

INK

Stencila

Texture

Wax

Collabor-
ation

xSweet

Open
Review

Science
Fair

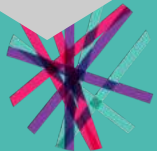
OJS

Coko's Editoria

Coko's xPub

eLife
Libero

CERN's
Invidio



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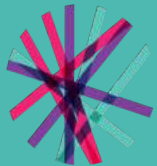
Platforms

Open, modular architecture enables innovation and collaboration



PubSweet Publishing Framework

Collaboration in the browser



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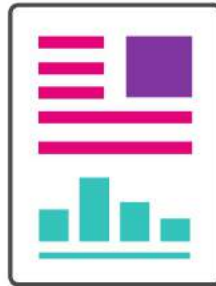
Collaborative Webpace

Research object at the center as the context or work changes

Automated

Identifiers
Tags
Links
Semantics

Research Object (HTML)



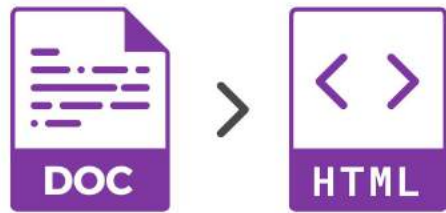
Tasks

Three stacked rectangular boxes with purple borders. Each box contains a black checkmark on the left and a horizontal line on the right, representing a task list.

TEXT, DATA, FIGURES,
ANALYSIS, REFERENCES



Digital-first workflow with automation and collaboration tools



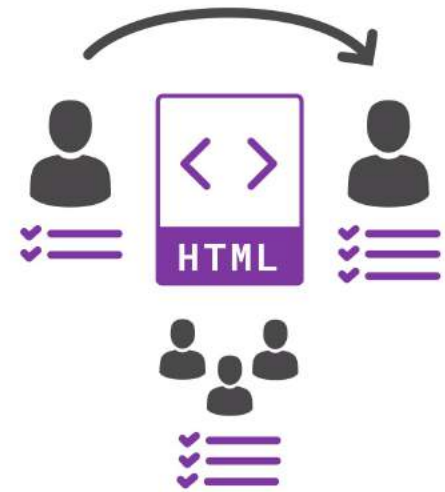
1

Word to HTML



2

**Flexible web-based
workflow**

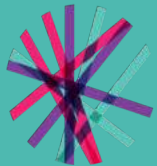


3

**Rapid review,
revision and
production**



The output must evolve



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Networked Output

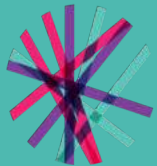
Shared output is linked set of files tied together with content or narrative



Static
publication

Living, versioned constellation of
research objects

There is no one size fits all solution



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coko Technology Suite

Ingest &
Conversion

Authoring

Collaboration
& annotation

Workflow

Enrichment

Web Editor

Production

Data Tools

Syndication

Collections /
TOC Manager

Dashboards

Web Delivery

INK Backend
and Admin

PubSweet Backend and Admin



Books Platform

**Ingest &
Conversion**

Enrichment

Syndication

**INK Backend
and Admin**

Web Editor

**Collaboration &
Annotation**

Workflow

Production

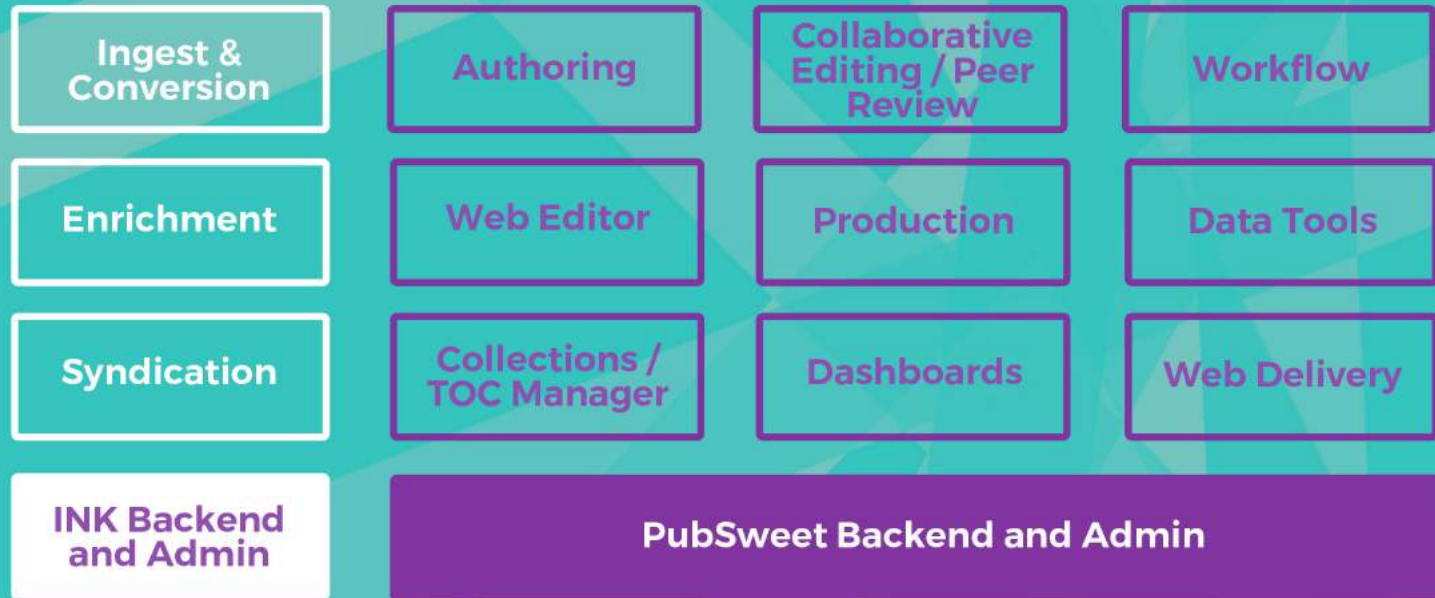
Dashboards

TOC Manager

PubSweet Backend and Admin



Journals platform



PubSweet

Three platform use cases (so far)

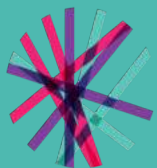
Books



Journals



Micropublications



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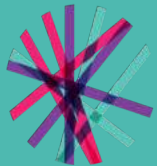
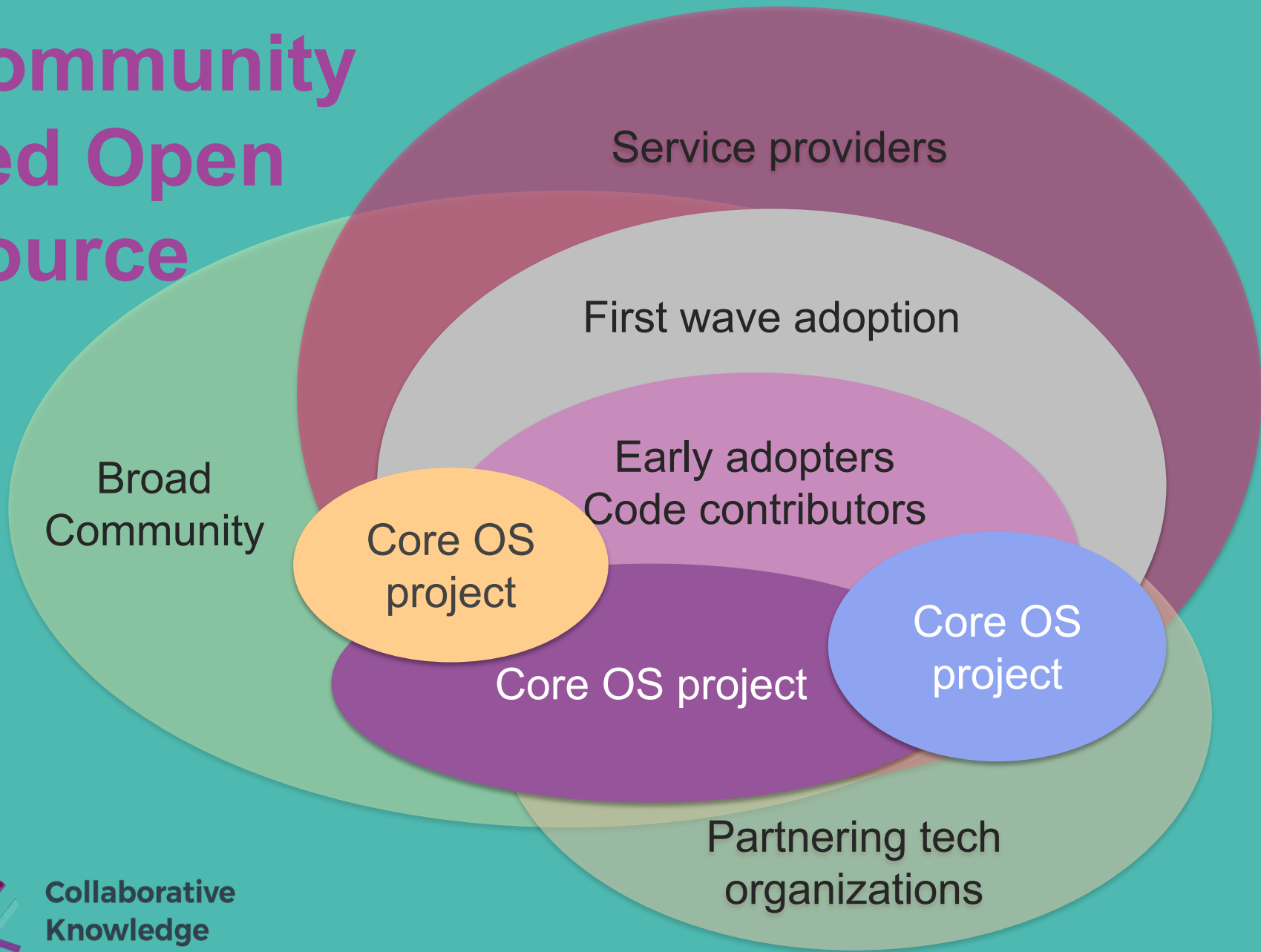
Design

Development cycles

Testing

Launch

Community Led Open Source



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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.

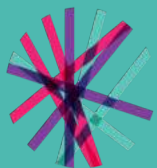
-Paul Shannon, eLife

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.

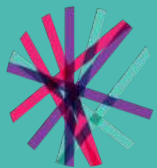
The result is more creativity, a more diverse set of solutions, and, ultimately, faster progress.

-Andrew Smeall, Hindawi



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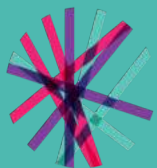
Community-built and owned OS is
sustainable



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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

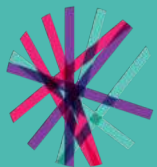




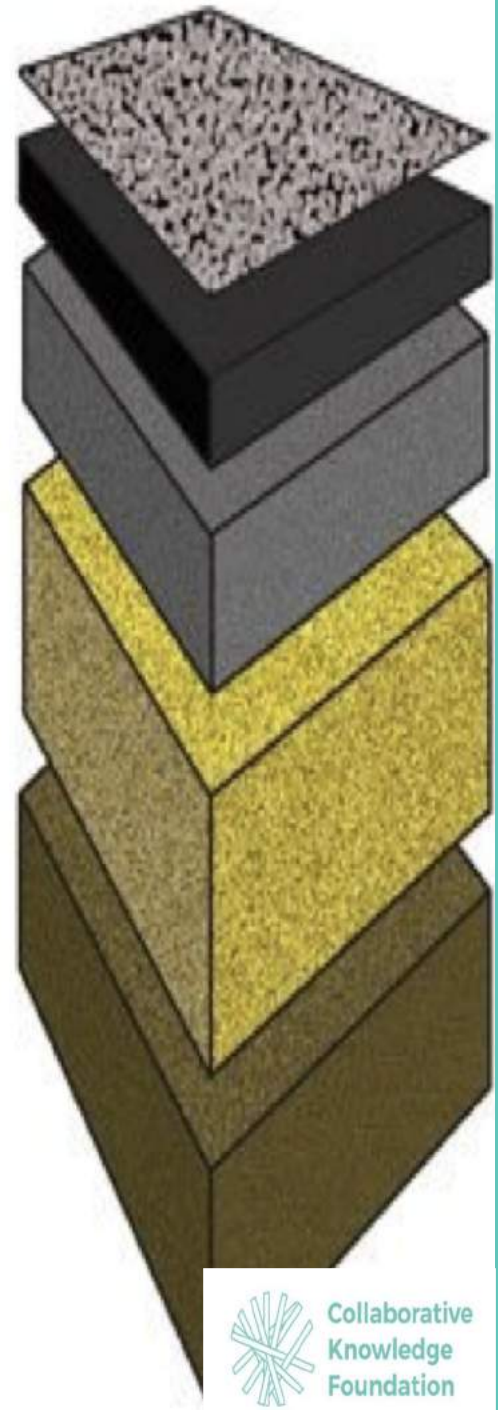
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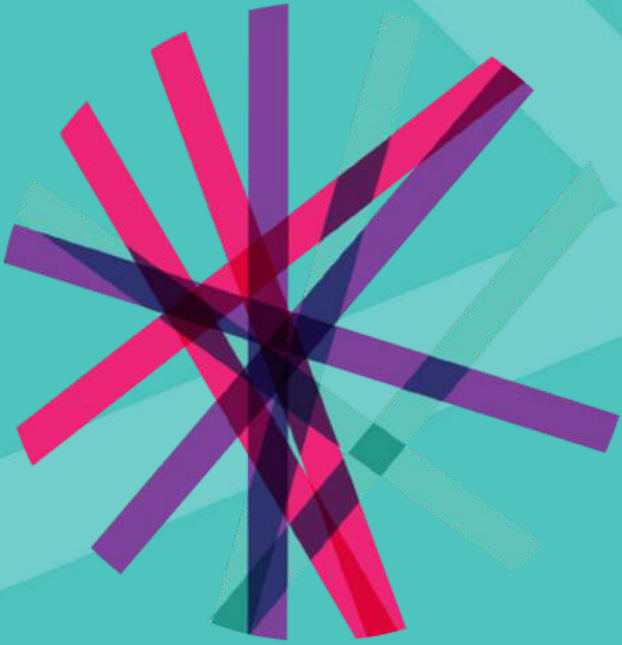
Shared Infrastructure

- 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



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kristen@coko.foundation