

# Scholarly Communication: Deconstruct and Decentralize?

## A Bold Speculation Featuring



Alice



Bob



Carol

Herbert Van de Sompel

[@hvsomp](#)

Los Alamos National Laboratory



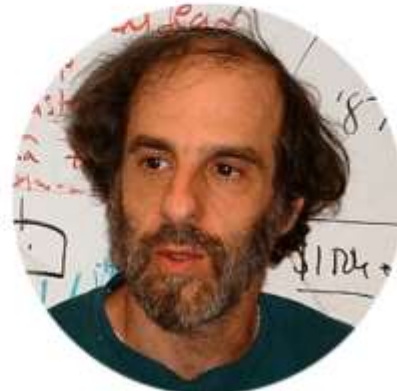


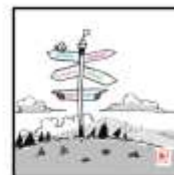
Tim Berners-Lee

Brewster Kahle



Paul Ginsparg





Interoperability for time-based access to the Web of the Past

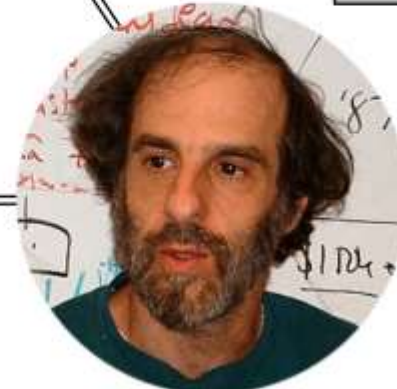
Interoperability for Web-based scholarly communication



Web archiving paradigm for archiving the scholarly record



Scholarly Orphans



# In this Talk

- Decentralized Web
- Why consider Decentralized Web for scholarly communication?
- Technical and Organizational inspiration
- Bold speculations



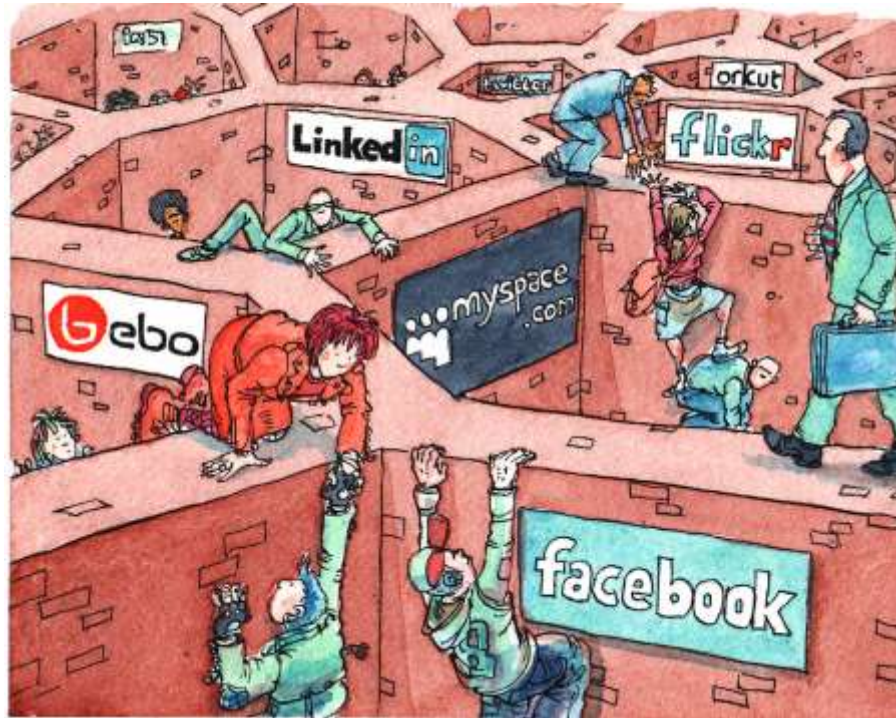
[@hvdsomp](https://twitter.com/hvdsomp)

CNI Fall 2017, December 12<sup>th</sup> 2017, Washington, DC





# Decentralized Web – In a Nutshell



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Decentralized Web Summit, June 7<sup>th</sup>-9<sup>th</sup> 2016  
<https://decentralizedweb.net/>

# Decentralized Web: Different Strands

- Distributed file systems
- Blockchain
- **W3C Social Web & Linked Data Activities**
  - Exemplified by MIT Solid Project
  - The Web as a distributed read/write file system with access controls
  - Enabled by a set of standardized HTTP-based protocols

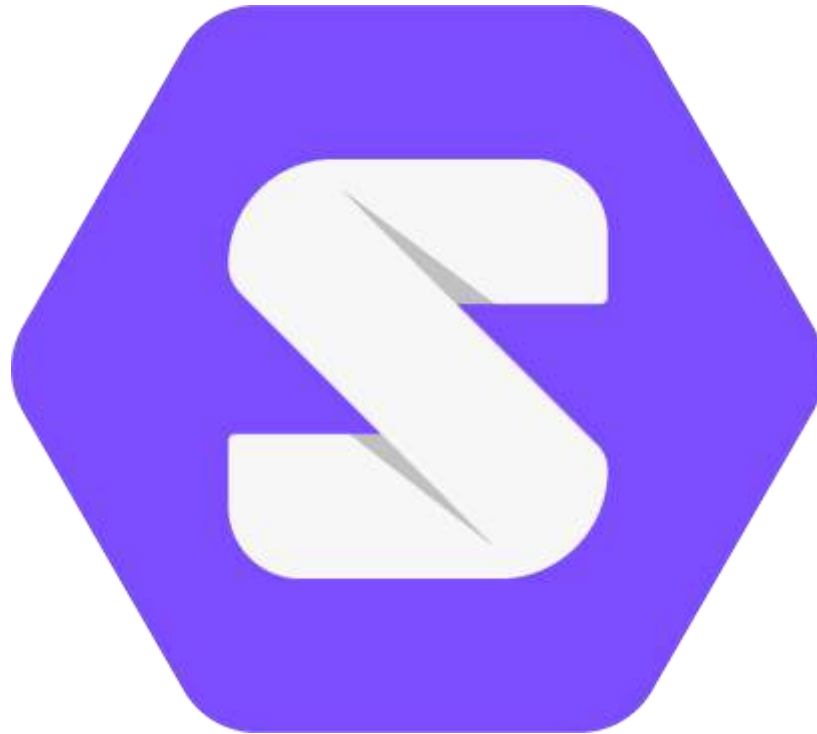
# Social Network Silos

- Some massive central portals dominate the web
- Service is smooth, free; the user is the product
- No mobility; the user not in control of (moving) her data
- No interoperability; different APIs (if any) for different platforms
- Functionality contained within a portal, can't be reused on content that resides in other portal

Put the user back in the driver's seat by means of user owned "pods" that store the user's resources. Third parties are granted access. Introduce cross-pod applications.



# MIT Solid Architecture



<https://alice.info>



owns



<https://alice.info/profile>

publishes



https://alice.info



operates



https://alice.info



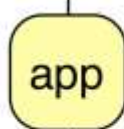
operates



https://alice.info



interacts



runs



https://alice.info



publishes

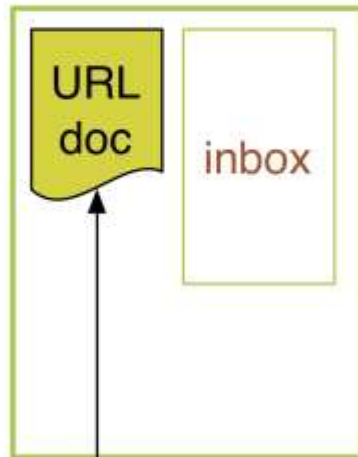




<https://alice.info>



https://alice.info



reads



<https://bob.info>

owns

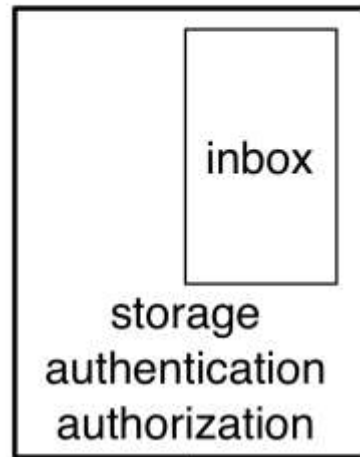


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publishes

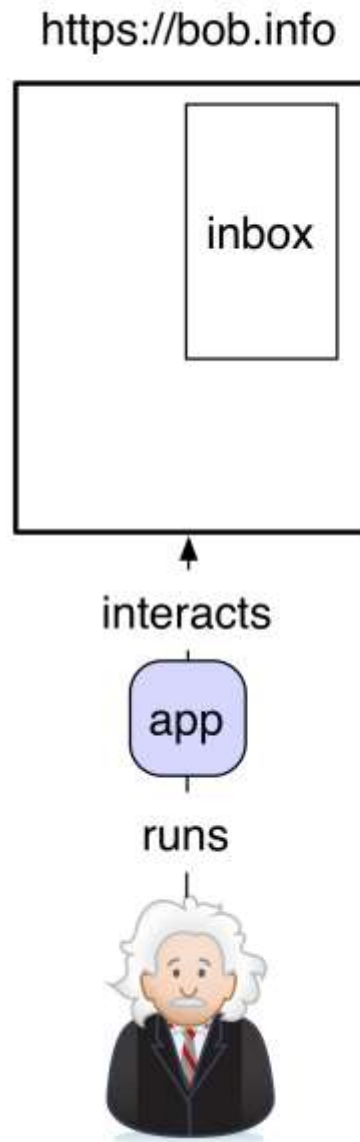


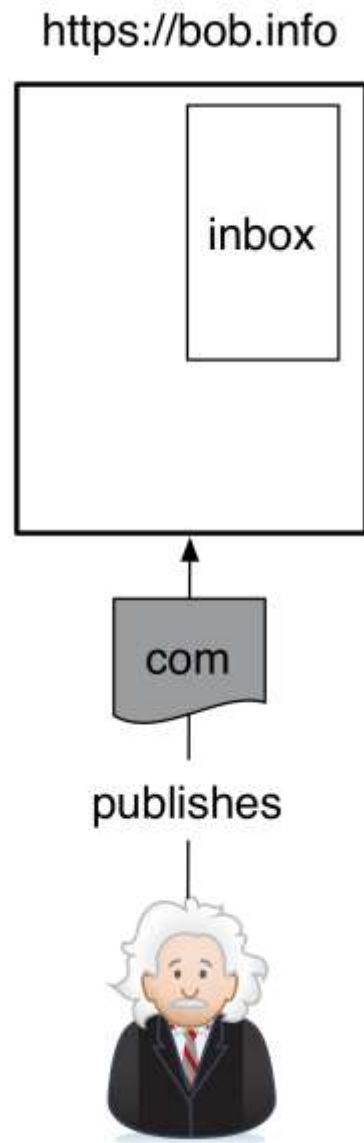
https://bob.info



operates

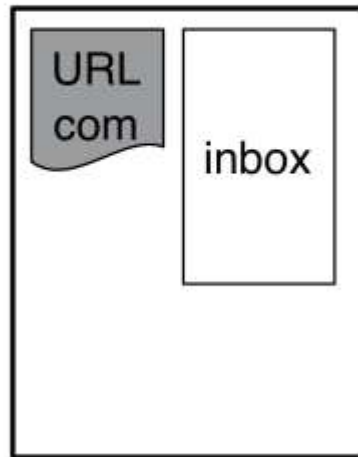




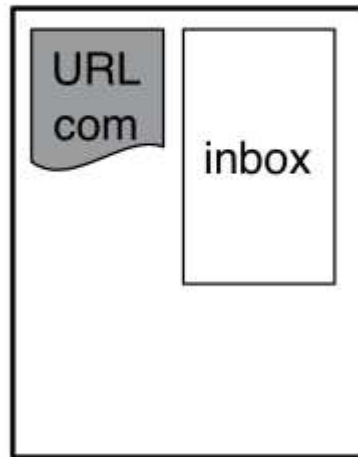




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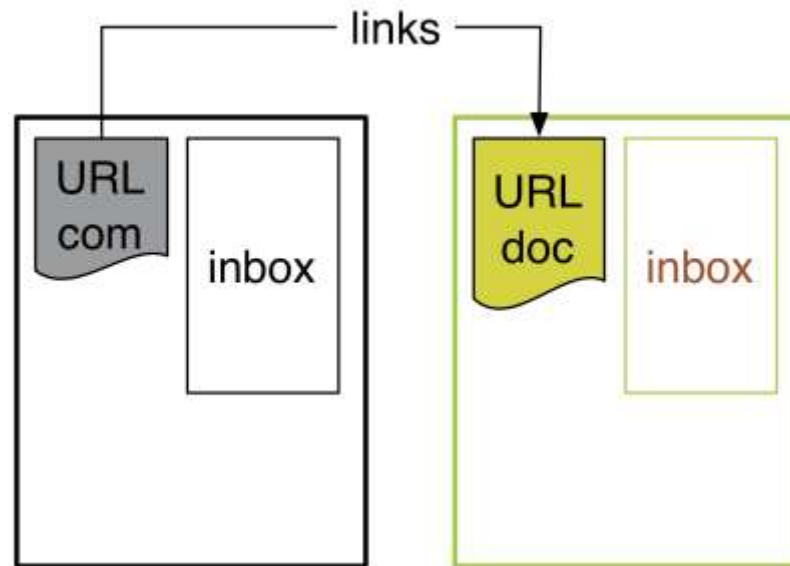


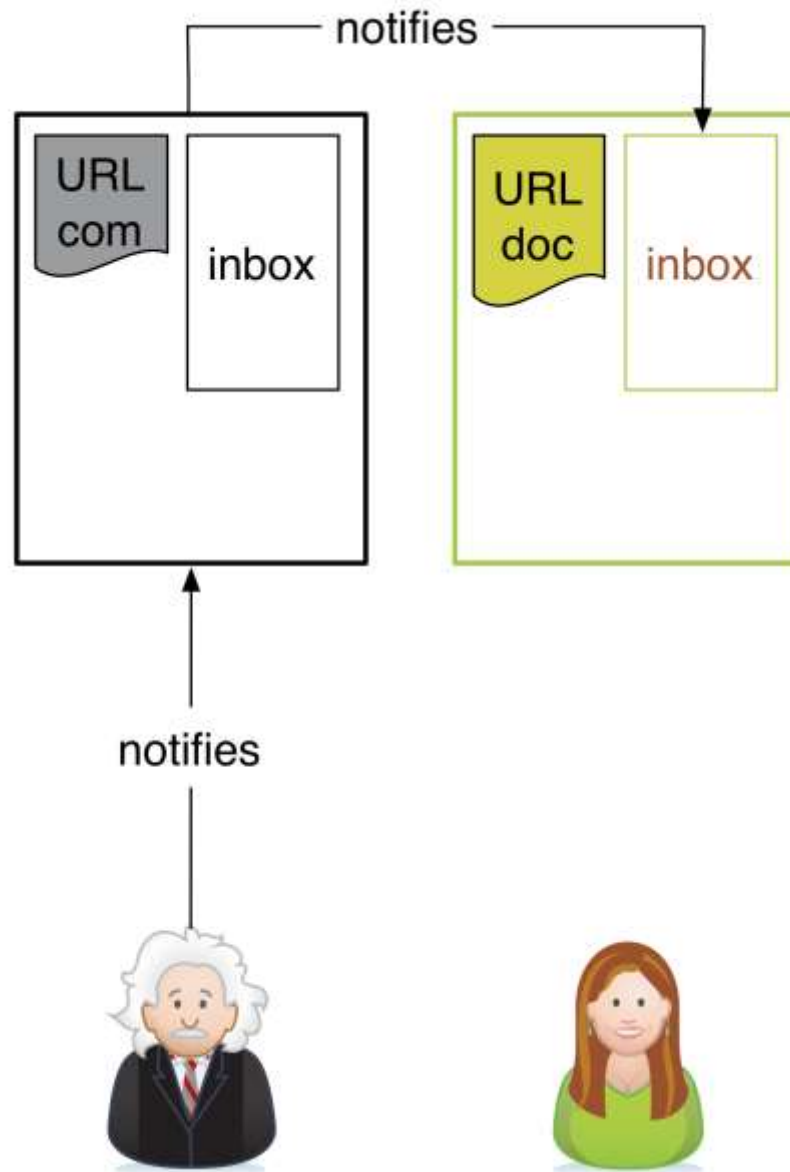
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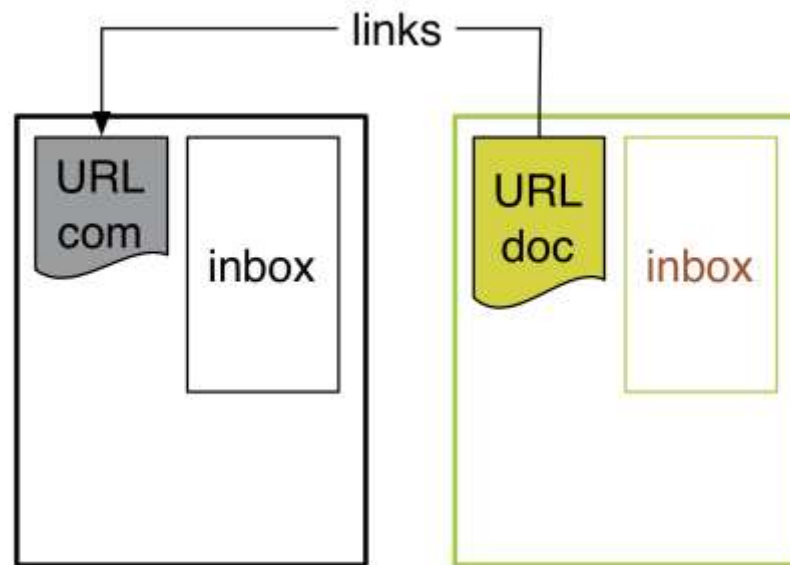


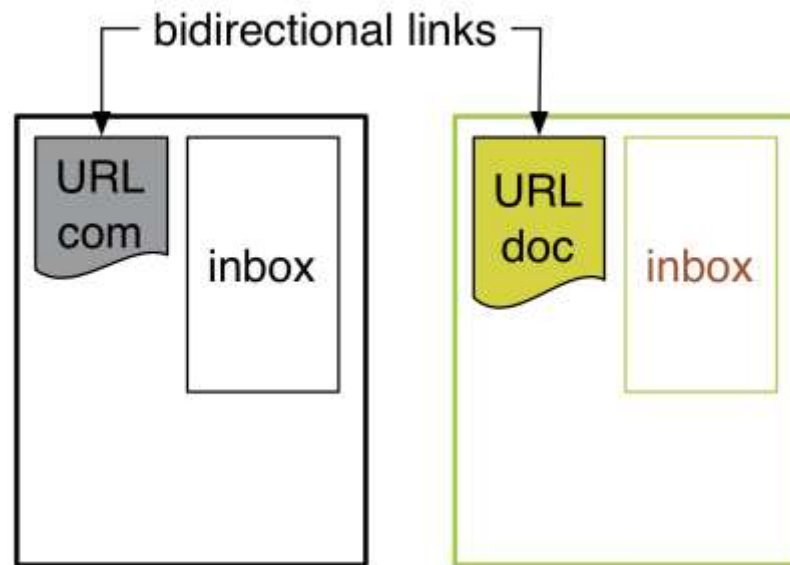
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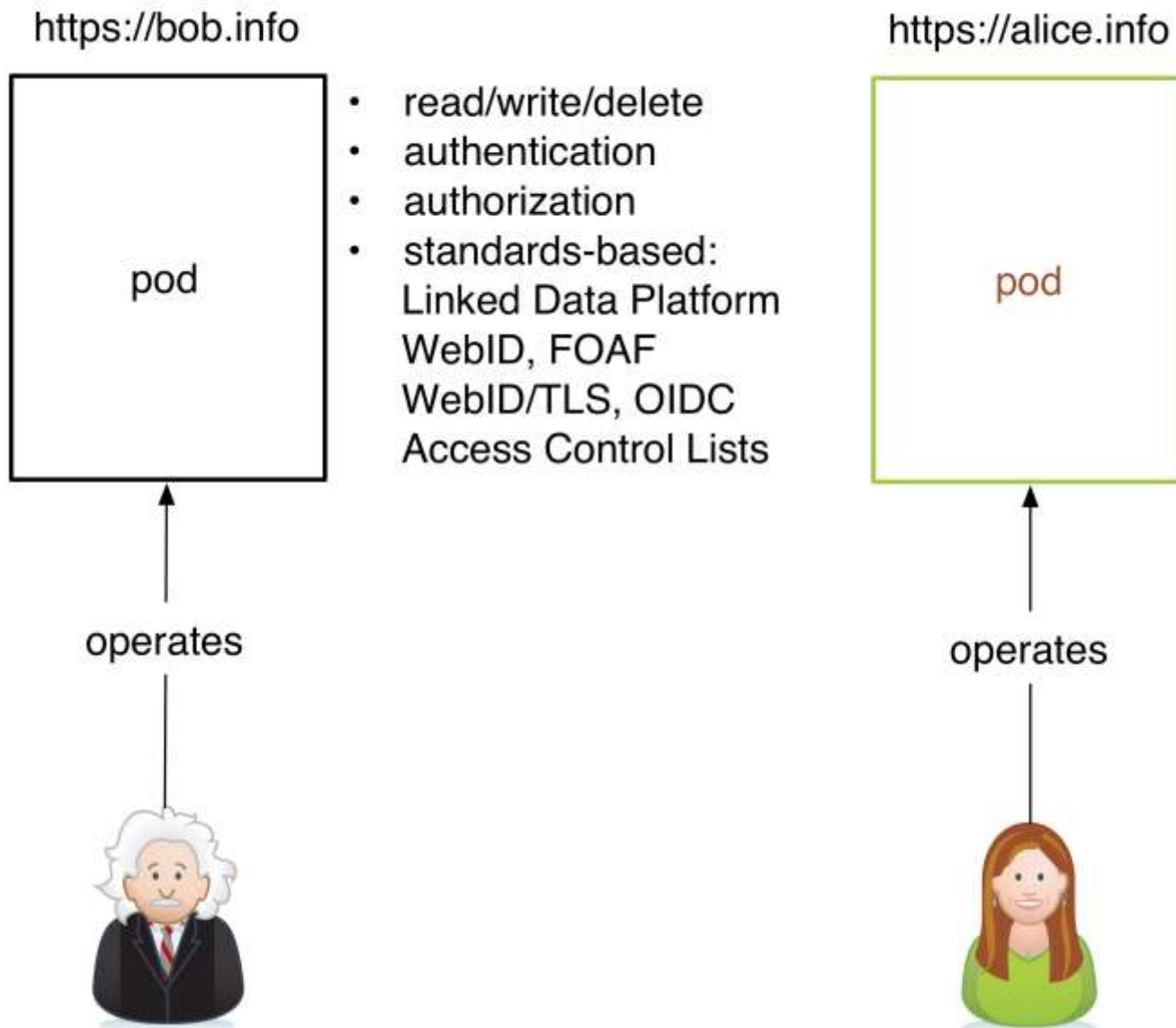




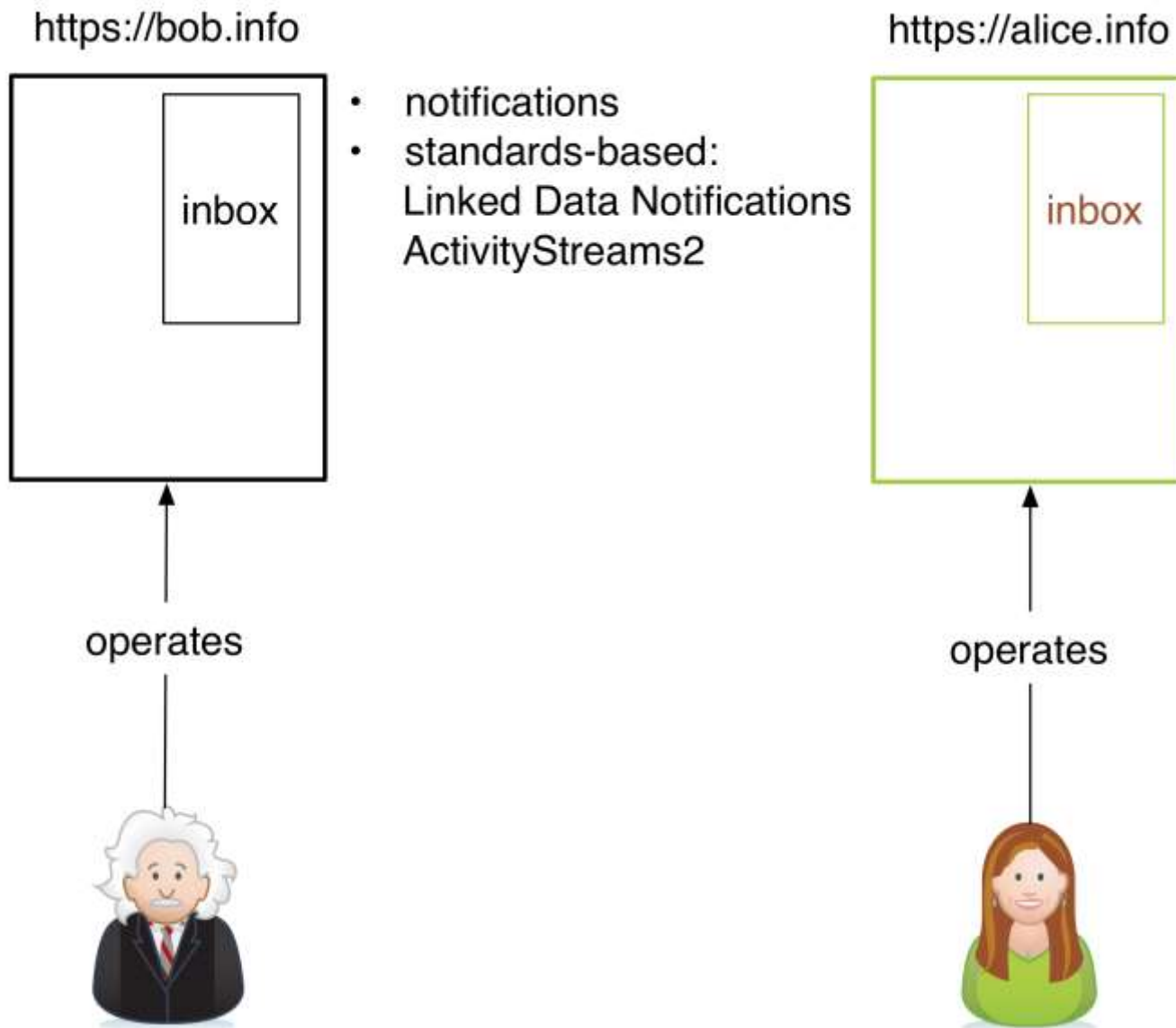


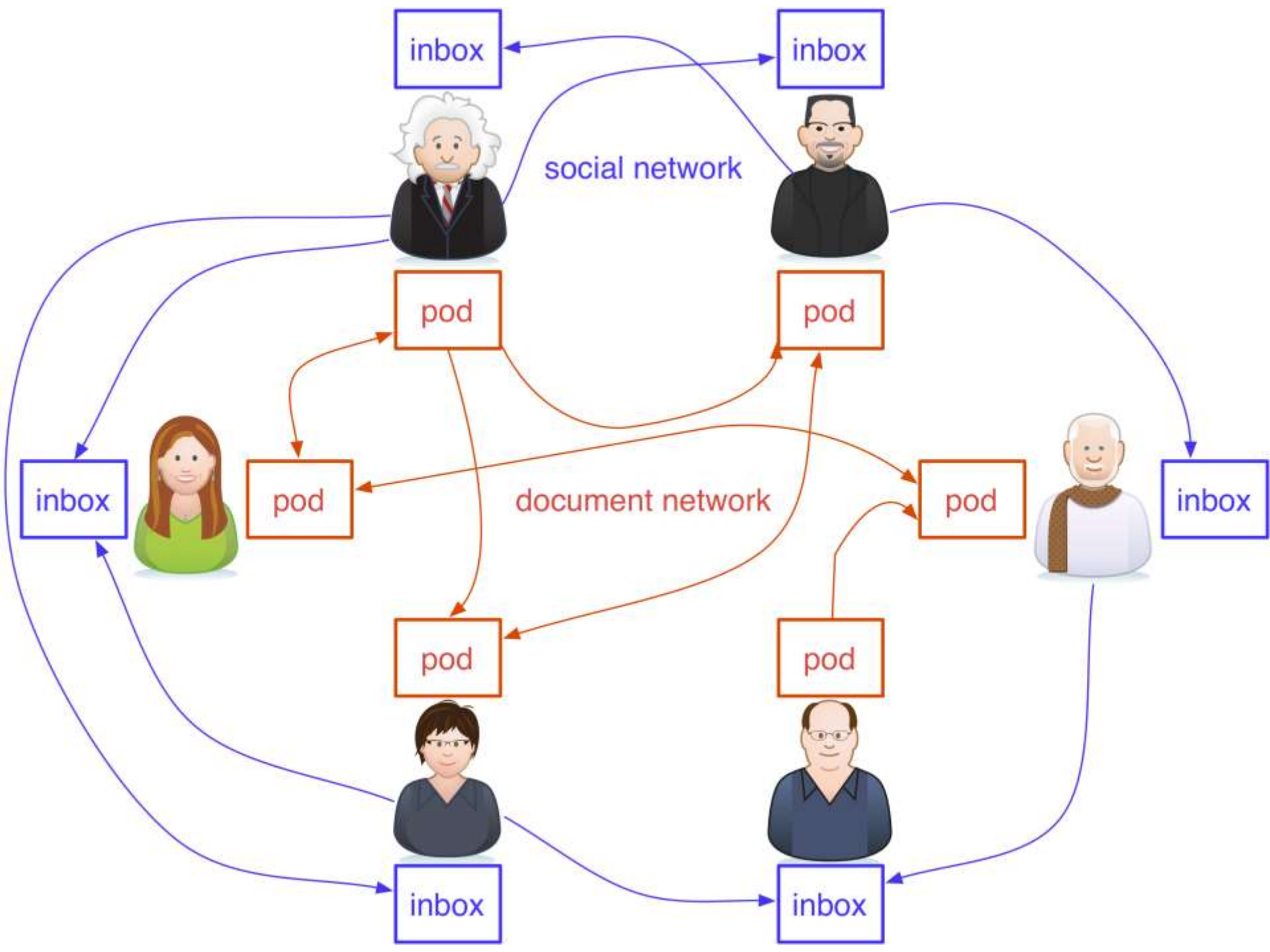








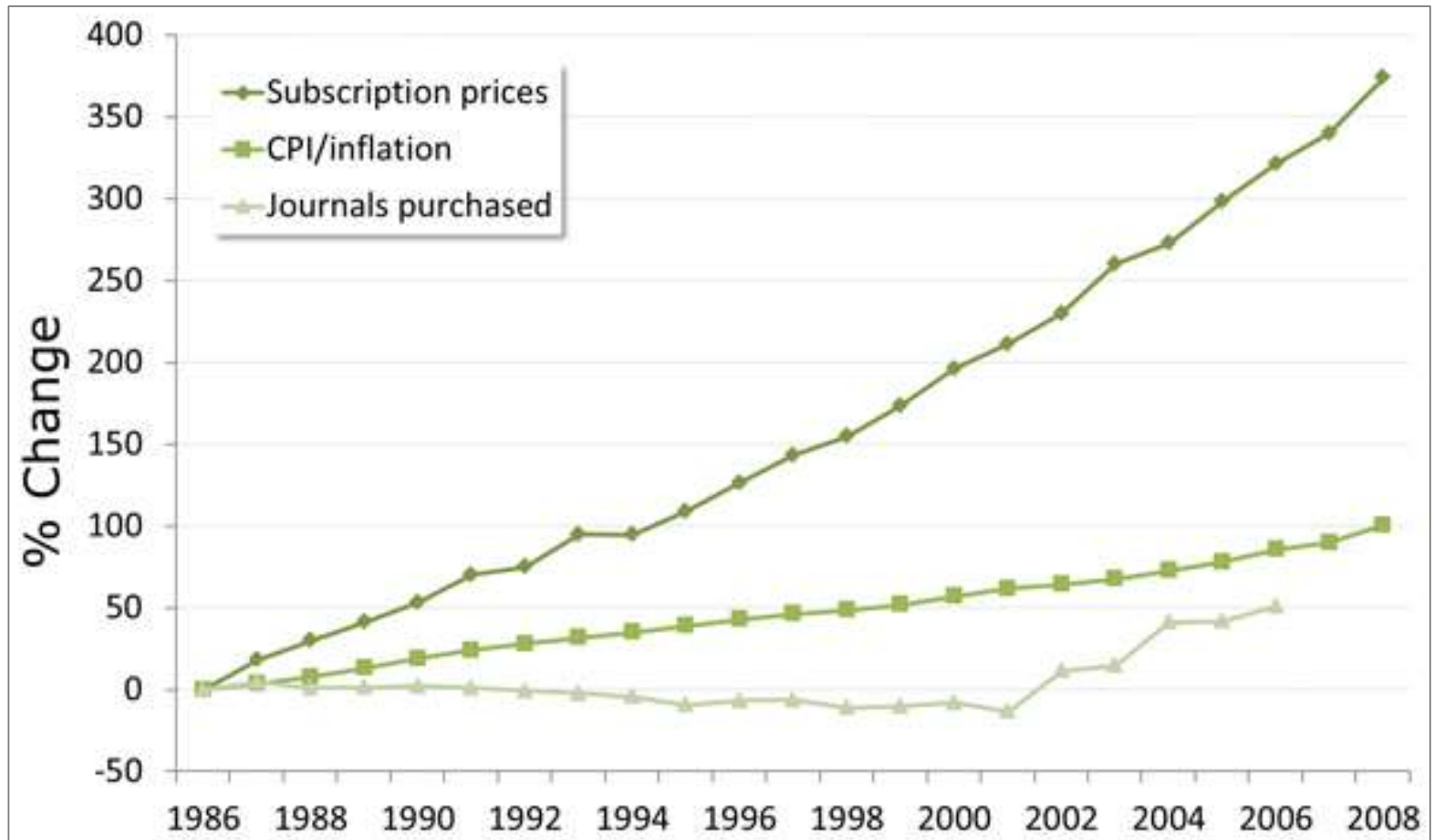




# Scholarly Communication



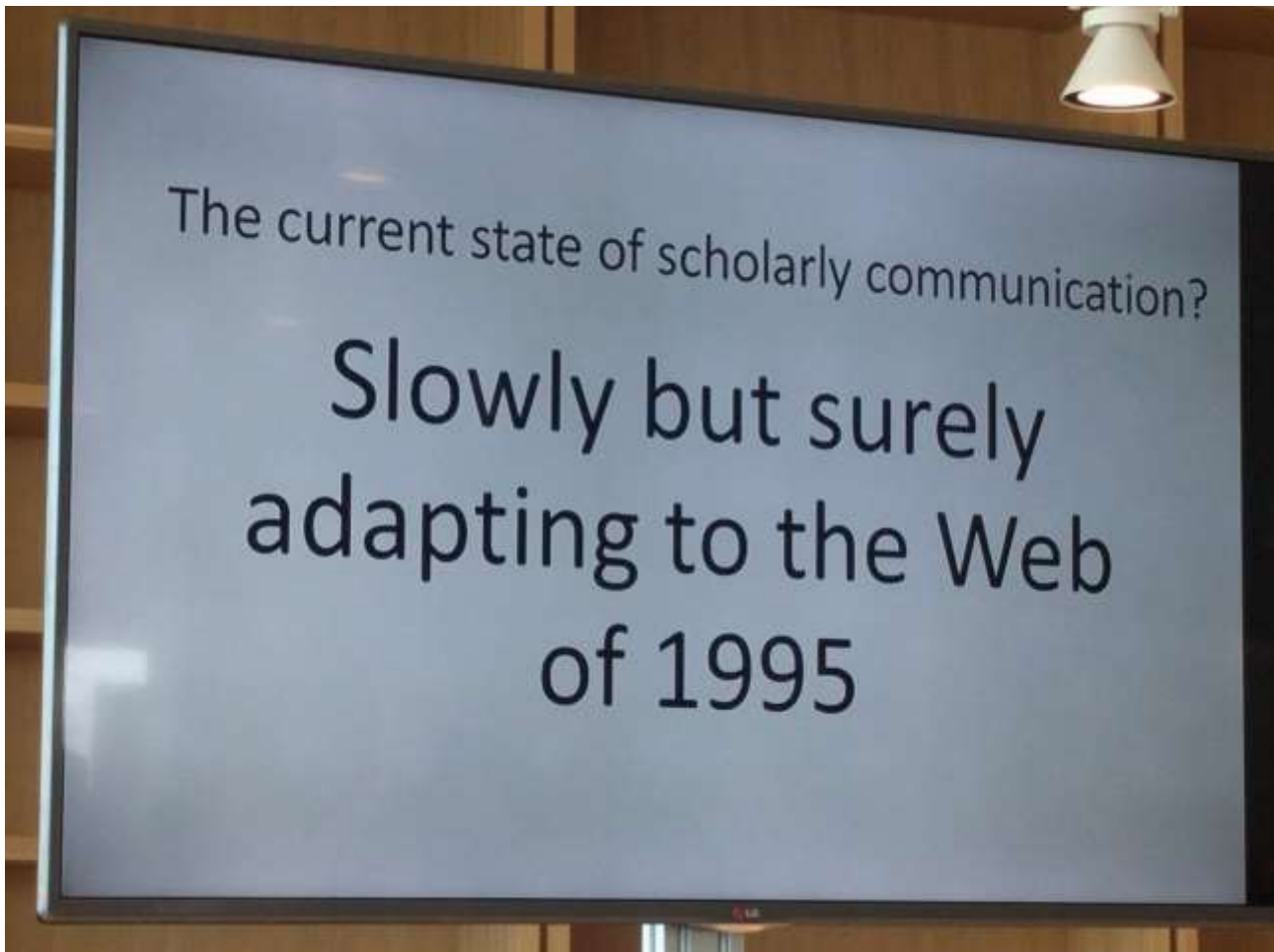
## 36 Years of My Career ...



Adapted by Björn Brembs from <http://www.arl.org/bm~doc/arlstat08.pdf/>

<http://bjoern.brembs.net/2017/10/why-can-elsevier-keep-insulting-scholars-without-consequences/>

## 20 Years of My Career ...





# It's Not Like We Haven't Been Told



Paul Ginsparg

deconstruct  
discipline-centric



Stevan Harnad

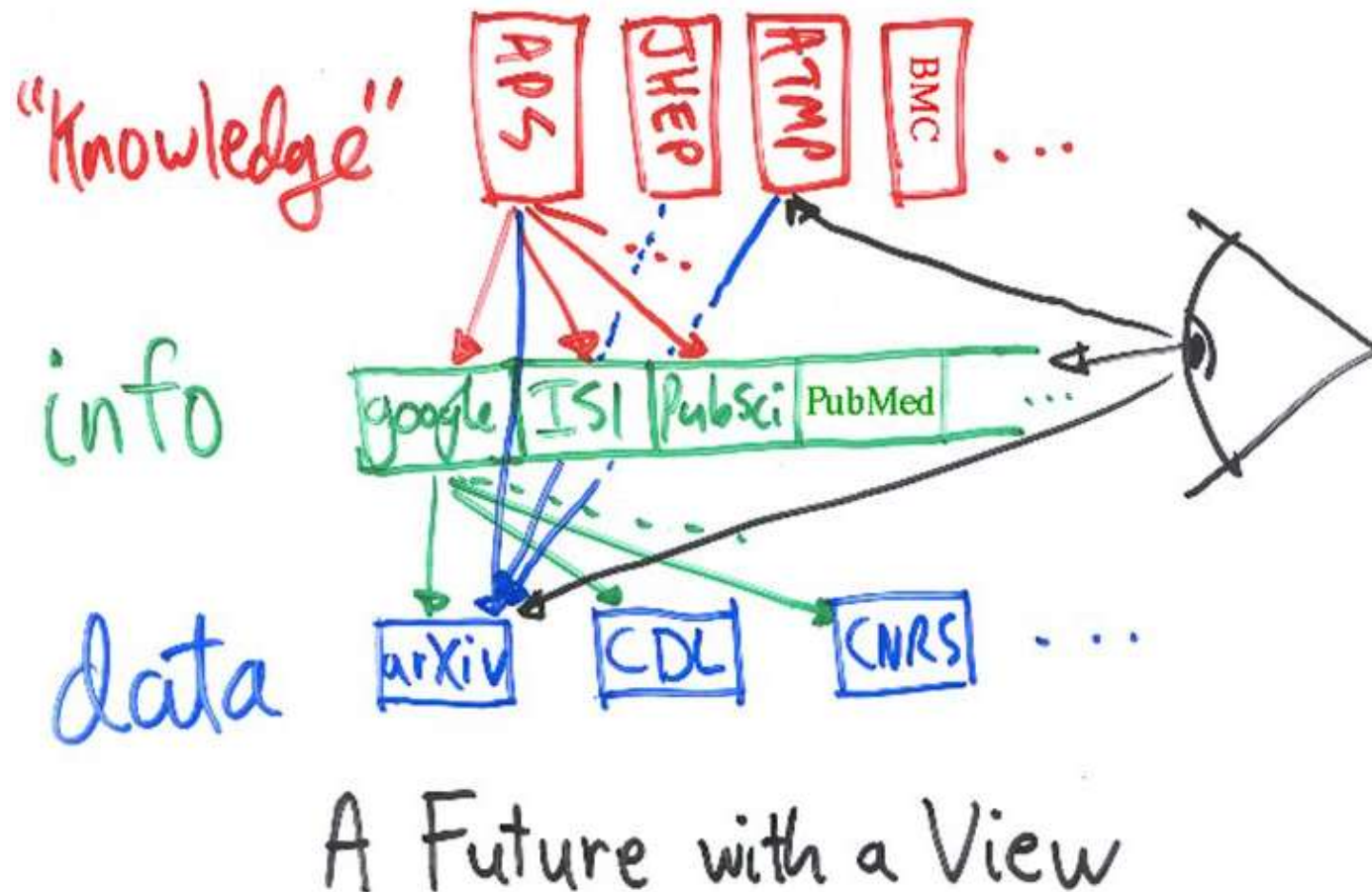
deconstruct  
researcher-centric



John W.T. Smith

deconstruct  
researcher/institution-centric

# “Decoupling Registration from Certification” Didn’t Happen



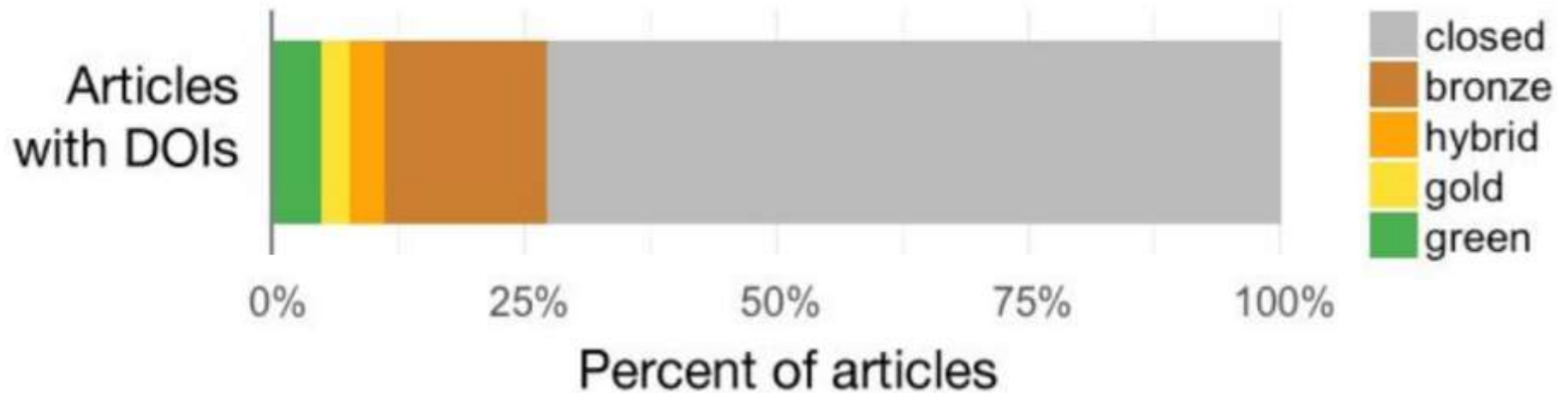


# What Happened: Open Access

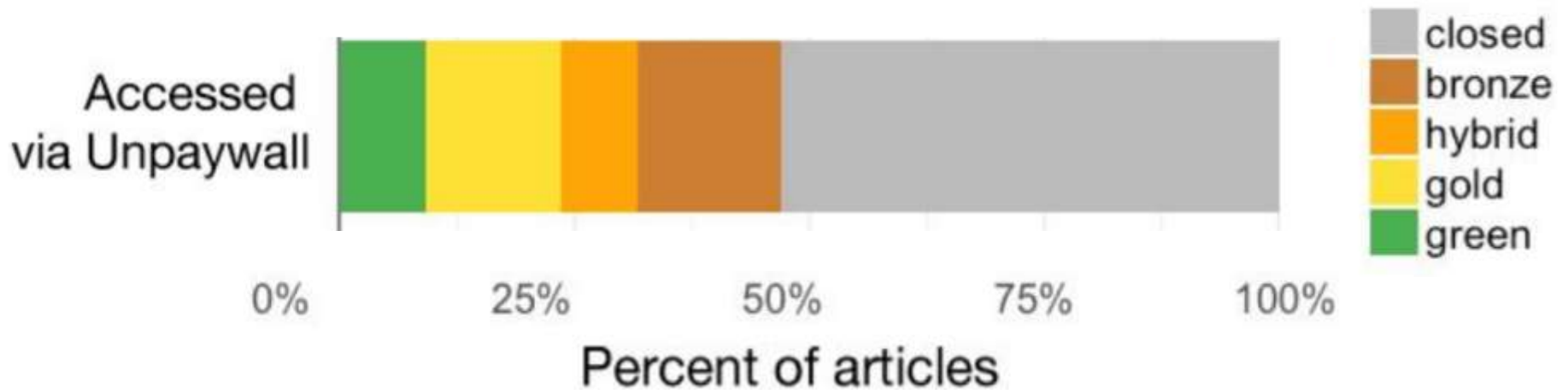
- No actual paradigm shift, but focus on business models to support access to reviewed articles without paywall
- Strategies include:
  - Author publishes article in open access, pays article processing charge
  - Author deposits article in institutional repository, access subject to publisher embargo (conditions vary)



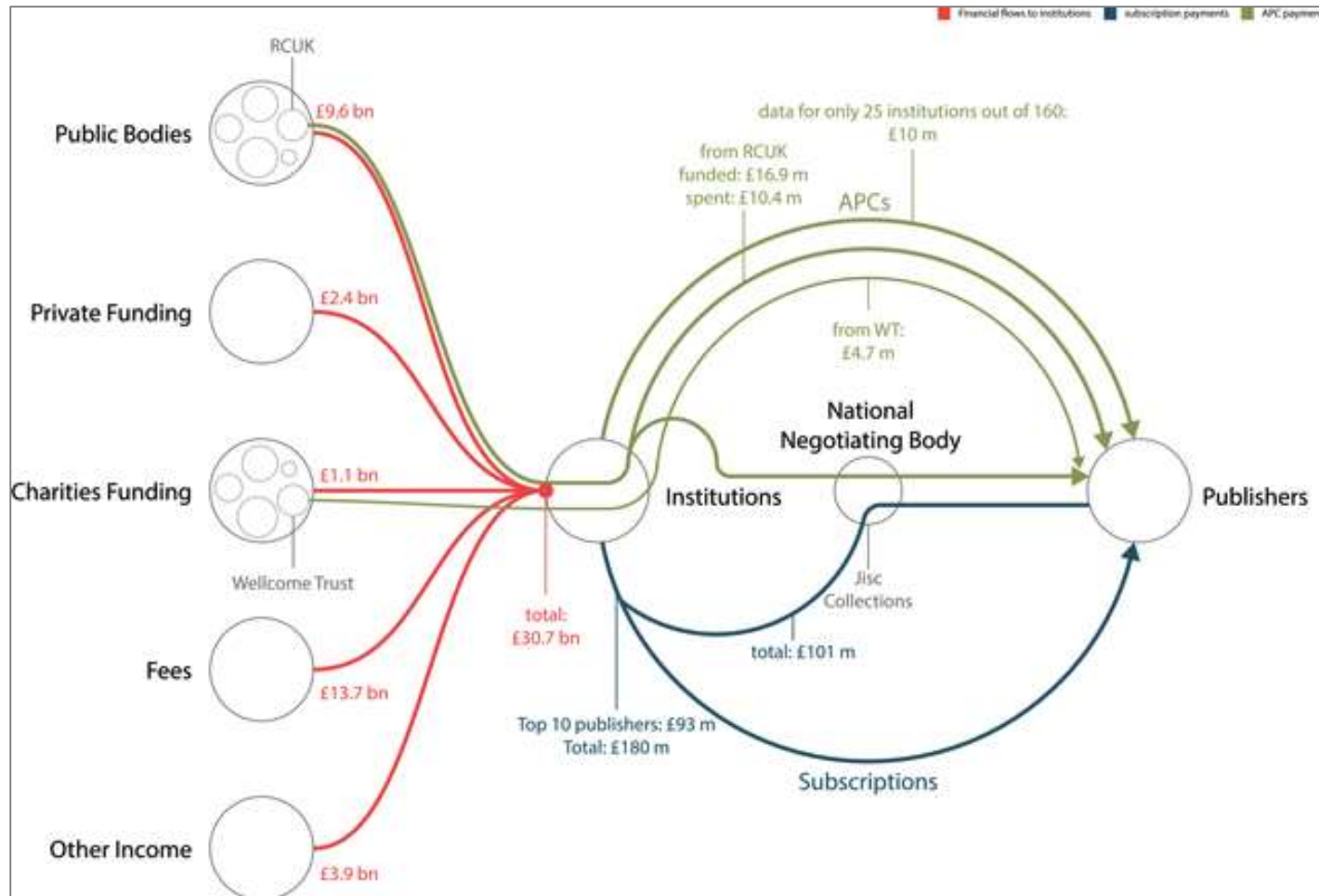
# Open Access: Improved Access



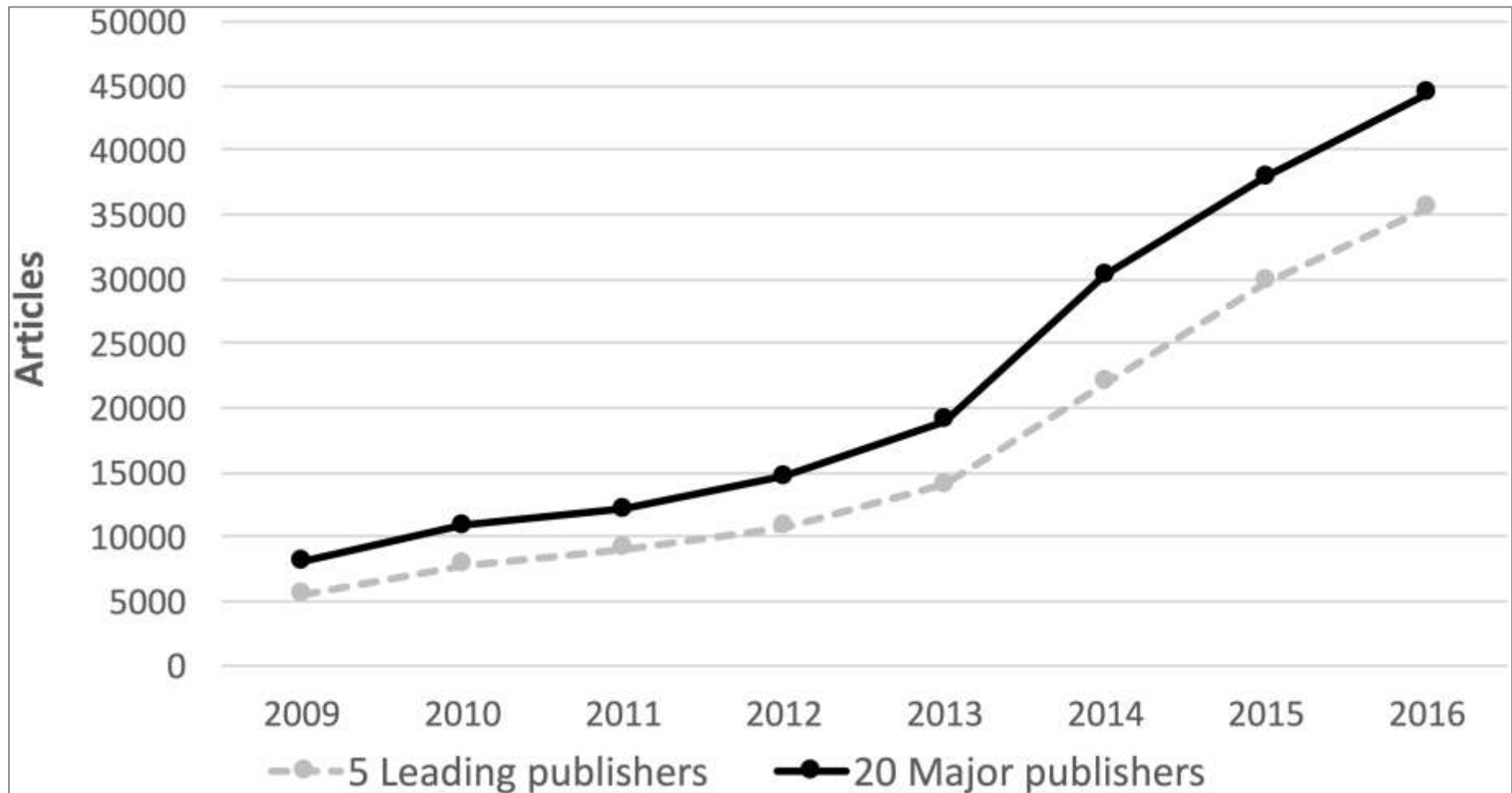
# Open Access: Improved Access



# Open Access: More \$ in the System



## Open Access: More \$ in the System



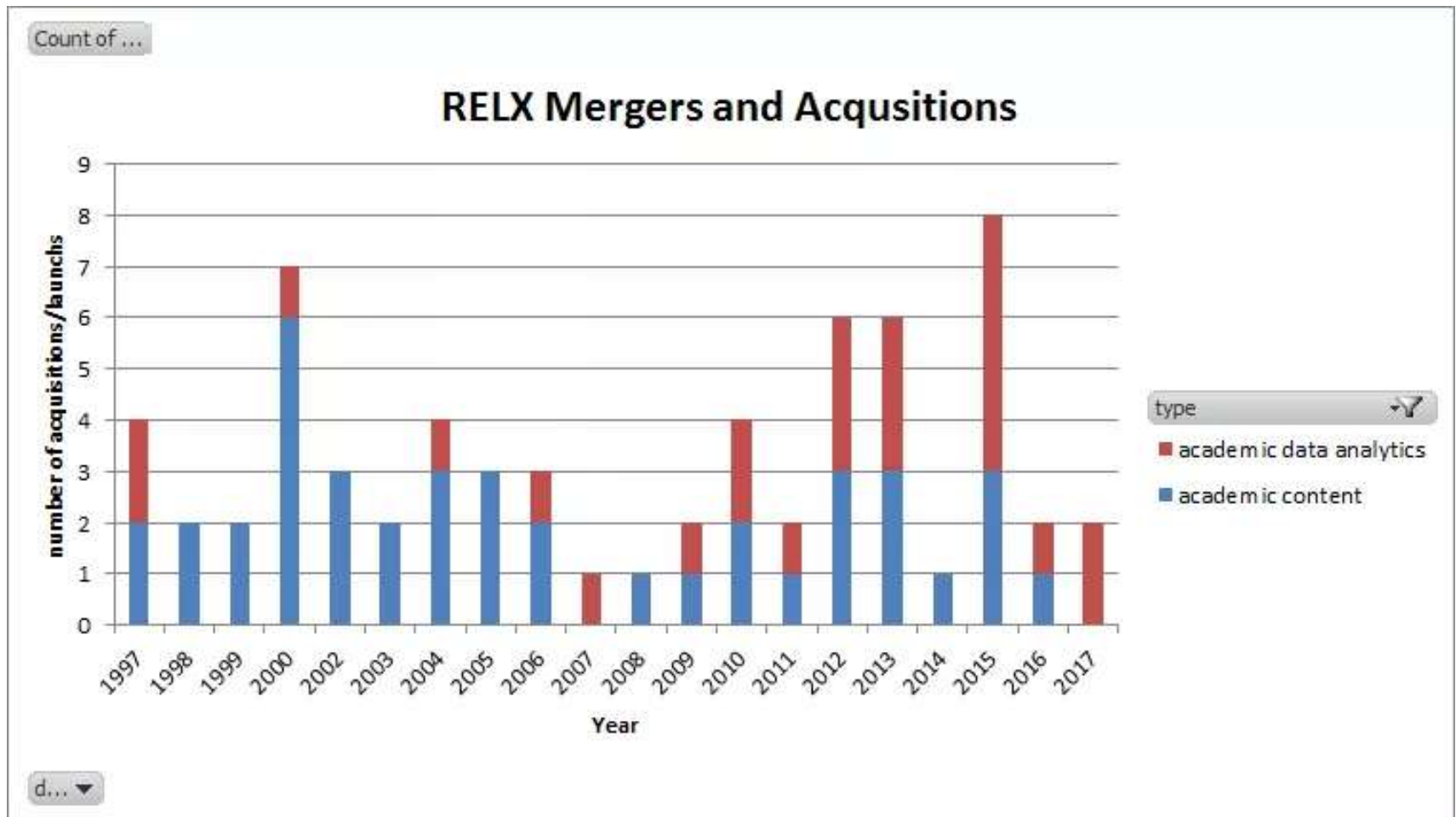
Björk B. (2017) Growth of hybrid open access, 2009–2016. PeerJ.  
<https://doi.org/10.7717/peerj.3878>

# What Happened: Increased Control by Established Players

- Acquisition of innovative venues for publishing, analytics, research process (SSRN, bepress, publons, ...)
- Institutional repositories face increased competition from CRIS systems
- Action radius is extending into provision of solutions for the entire research life cycle, not just article publishing

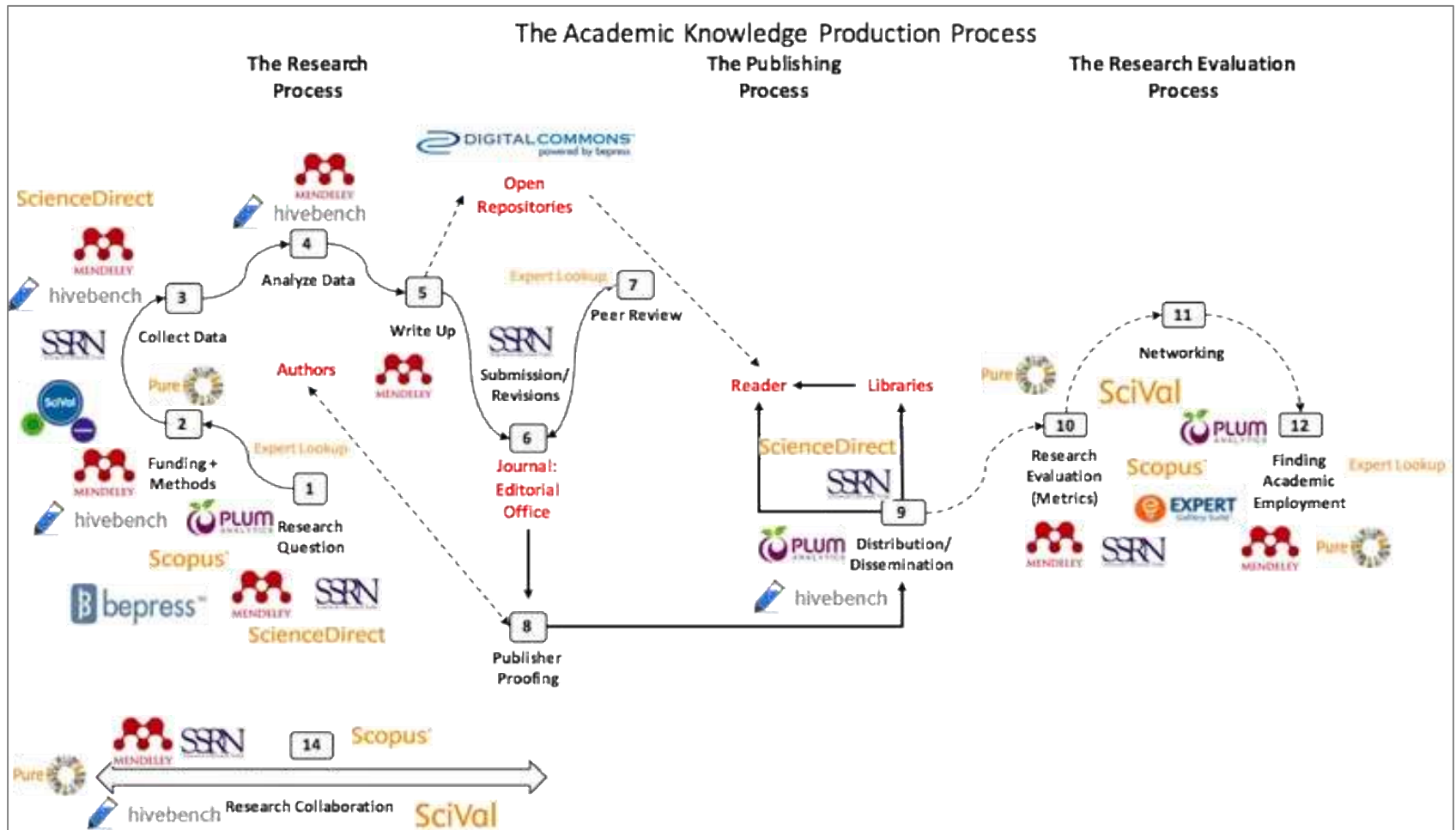


# Increased Control: From Content to Analytics



Posada, A., Chen, G. (2017) Publishers are increasingly in control of scholarly infrastructure and why we should care <http://bit.ly/2xKRnSr>

# Increased Control: From Publishing to Research Lifecycle



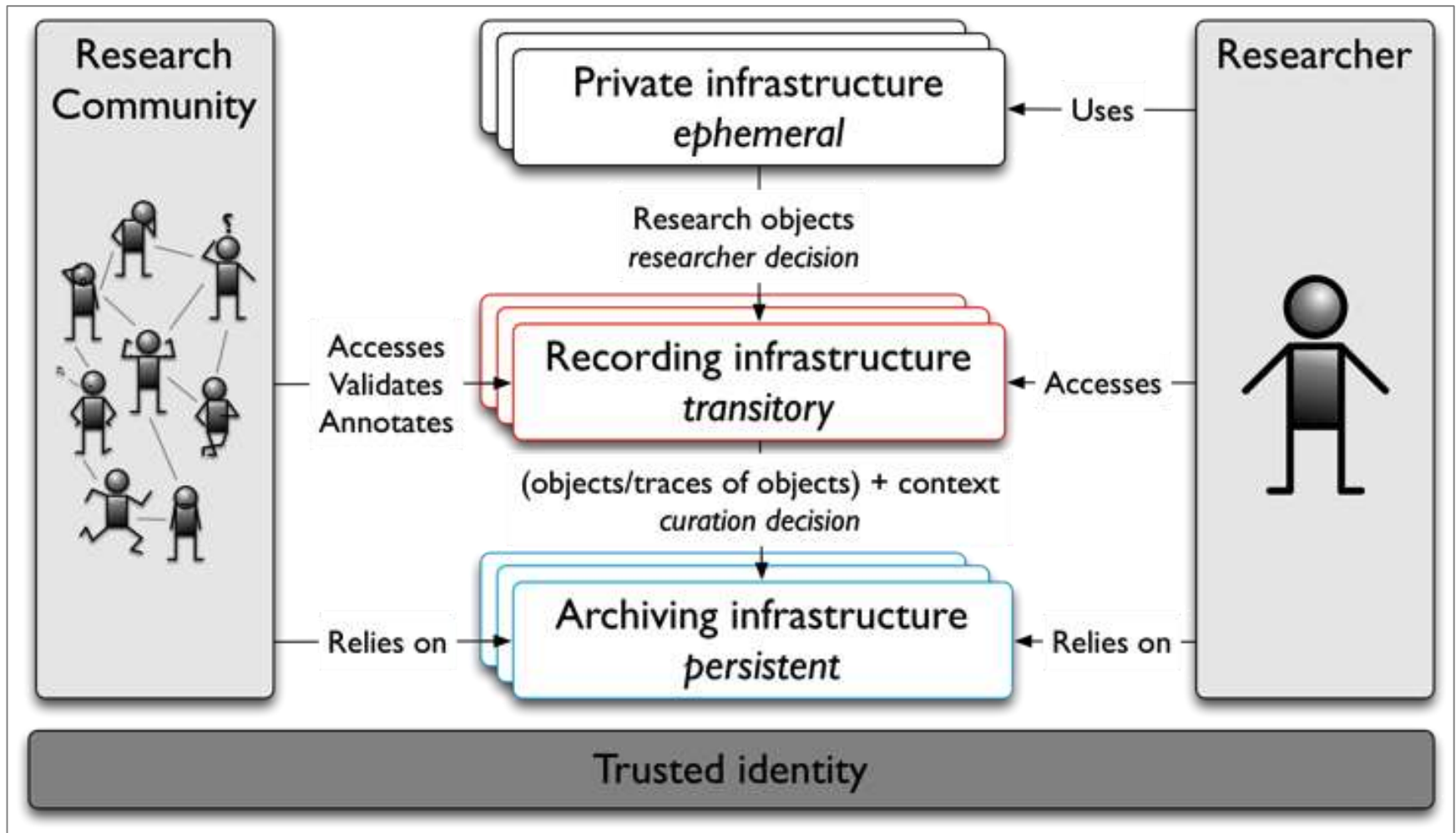
Posada, A., Chen, G. (2017) Publishers are increasingly in control of scholarly infrastructure and why we should care <http://bit.ly/2xKRnSr>



# What Happened: Research Artifacts Surfacing on the Web

- The research process, not just its outcome, is becoming visible on the web
- Dramatic extension of the scholarly record with a wide variety of artifacts
- These artifacts are hosted across the web, commonly on web platforms that are not dedicated to scholarship
- These platform record artifacts but typically don't archive them

# Recording is not Archiving



# How to Realize FORCE11 Scholarly Commons Principle 1?

P1. The scholarly commons is an agreement among knowledge producers and users

There is global commitment and participation in the commons' long-term viability and preservation

- Technical component
  - I formulate ideas inspired by my explorations of decentralized web approaches
- Organizational component
  - I provide pointers to ongoing thinking about a possible organizational foundation for a scholarly commons

# Technical Inspiration: Sarven Capadisli's dokie.li



## dokieli

dokieli is a clientside editor for decentralised article publishing, annotations and social interactions.

|   |  |  |   |
|---|--|--|---|
| Write and publish articles in a space you control including locally, offline and static hosting.                |  |  | Save articles to your personal datastore and edit in place (supports Solid / Linked Data Platform). |
| Annotate, reply to and share articles. Let your readers choose where to store their comments and notes.         |  |  | Get notifications when someone interacts with your article.   |
| Embed live data, scripts, stats and multimedia. Great for tutorials and experimental results.                   |  |  | Add identifiers and semantic markup to any concept to put your prose in the Linked Open Data cloud. |
| Anyone can tweak, clone and remix your articles. Spread your ideas, facilitate open knowledge access and reuse. |  |  | Let your readers choose a view that suits them. Design your own or use preset themes.               |
| Open source and under ongoing development... dogfooding, feedback and contributions welcome.                    |  |  | Try it now! This webpage is a dokieli article.  |

# dokieli Features

- A client-side application that can perform CRUD operations with pods
  - Browser extension or embedded JavaScript
  - Supports a wide range of standards, e.g. WebID, FOAF, OpenID Connect, ACL, LDP, LDN, Web Annotation, AS2, CC, CiTO, PROV-O, schema.org, ...
- Application functionality:
  - HTML+RDF editor for decentralized article publishing, reviewing, annotating
  - A platform for social interactions, e.g. share, request review
- Application features include:
  - Human-friendly, multi-view documents
  - Machine-readable Linked Data documents
  - Inline semantic citations
  - Fine-grained URI-addressability
  - Authentication & Authorization based on ORCID OpenID Connect

# Send a Notification to Solicit a Review

**Linked Specifications and Implementation Reports**

**Authors**  
Sarven Capadisli

**Identifier:** <http://csarven.ca/linked-specifications-reports>

**In Reply To:** [Call for Linked Research](#)

**Notifications Inbox:** <https://linkedresearch.org/inbox/csarven.ca/linked-specifications-reports/>

**Annotation Service:** <https://linkedresearch.org/annotation/csarven.ca/linked-specifications-reports/>

**Published:** 2017-09-29

**Modified:** 2017-10-02

**License:** [CC BY 4.0](#)

**Abstract**  
This article describes the structure and linking of the W3C Recommendation on Linked Data Notifications, its test suite, and evaluation reports.

**Introduction**

**Share** **Reply** **Review**  
**New** **Open** **Save As**  
**Memento** **Edit** **Source**  
**Print** **Embed Data** **Local Storage**

**Native** **csarven** **Basic** **LNCS**  
**ACM** **W3C-ED** **DesignIssues**

|                     |                  |
|---------------------|------------------|
| <b>Authors</b>      | Sarven Capadisli |
| <b>Reading time</b> | 30 minutes       |
| <b>Characters</b>   | 22651            |
| <b>Words</b>        | 2680             |
| <b>Lines</b>        | 400              |
| <b>A4 Pages</b>     | 9                |

# Send a Notification to Solicit a Review

The screenshot shows a web browser window at <http://csarven.ca/linked-specifications-reports>. The page content includes:

- Linked Specifications and**
- Authors:** Sarven Capadisli
- Identifier:** <http://csarven.ca/linked-specifications-reports>
- In Reply To:** [Call for Linked Research](#)
- Notifications Inbox:** <https://linkedresearchreports/>
- Annotation Service:** <https://linkedresearchreports/>
- Published:** 2017-09-29
- Modified:** 2017-10-02
- License:** [CC BY 4.0](#)
- Abstract:** This article describes the structure and linking of the W3C Recommendation on Linked Data Notifications, its test suite, and evaluation reports.
- Introduction**

A 'Share resource' dialog is open, showing a list of contacts. Two contacts, Herbert Van de Sompel and Ruben Verborgh, are selected and highlighted with a red box. Below the list, a text box contains the note: 'Herbert, Ruben, would you be interested to review this new paper of mine?'. The 'To' field is empty, and the 'Share' button is visible.

The right sidebar contains a user profile for Sarven Capadisli and a grid of icons for various actions: Share, Reply, Review, New, Open, Save As, Memento, Edit, Source, Print, Embed Data, and Local Storage. Below the icons are tabs for Native, csarven, Basic, and LNCS, and a section for ACM, W3C-ED, and DesignIssues. At the bottom, a table lists statistics:

|              |                  |
|--------------|------------------|
| Authors      | Sarven Capadisli |
| Reading time | 30 minutes       |
| Characters   | 22651            |
| Words        | 2680             |
| Lines        | 400              |
| A4 Pages     | 9                |

# Receive the Notification that Solicits a Review

9b043210 db8b 11e7  
a11d d38a32b8da8d.ttl

license  
type  
actor  
object

summary

to  
updated

linked specifications  
reports

license  
type

1.0

Announce

<http://csarven.ca/#i>  
linked specifications  
reports

Herbert, Ruben, would you  
be interested to review this  
new paper of mine?

profile

2017-12-07T20:17:09.017Z

4.0

Post

Creative Work

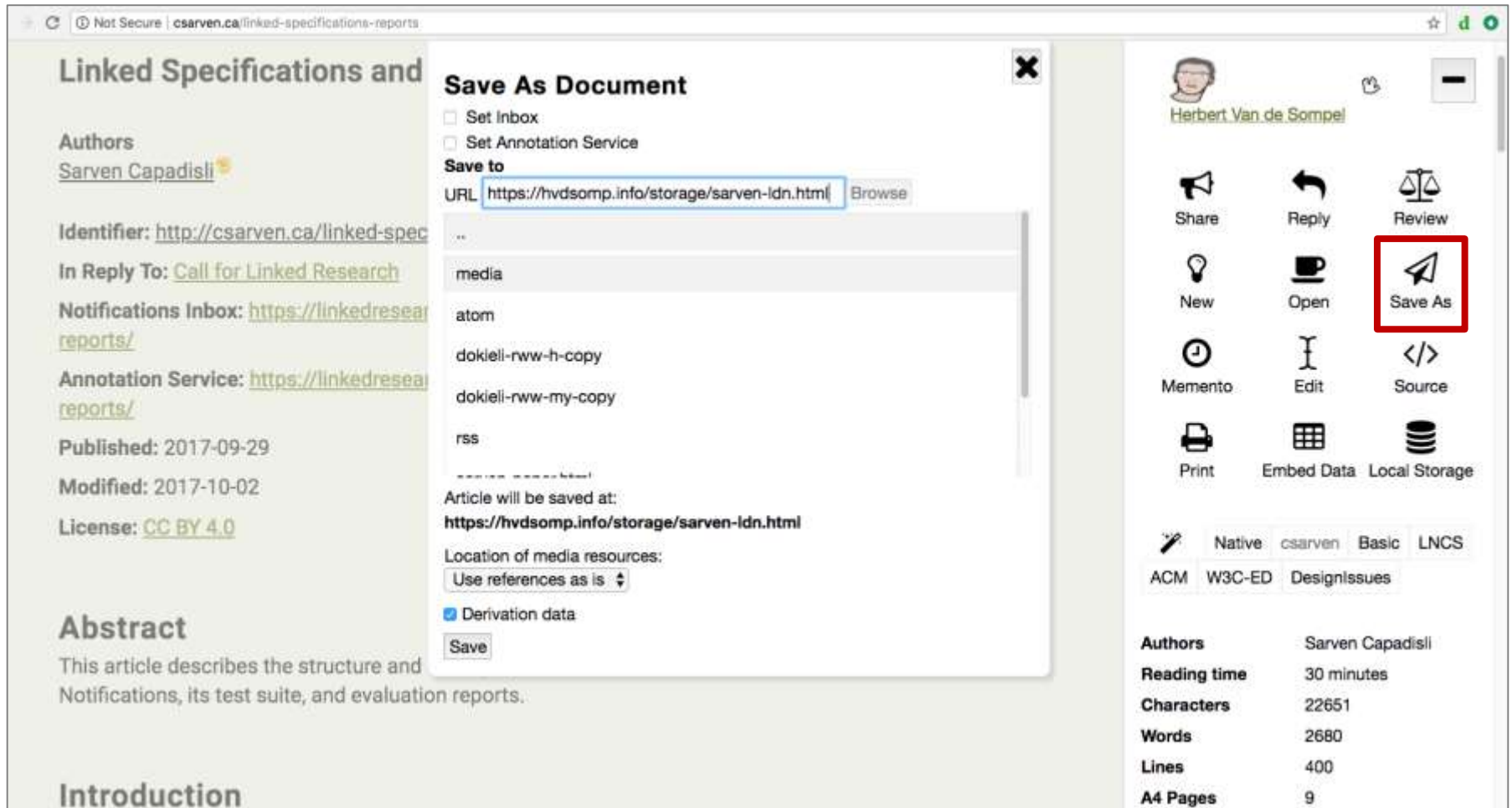
Entity

Document

Article



# Create a Derivation Copy



The screenshot shows a web browser window with the address bar displaying "Not Secure | csarven.ca/linked-specifications-reports". The main content area is titled "Linked Specifications and Reports" and includes the following information:

- Authors:** Sarven Capadisli
- Identifier:** <http://csarven.ca/linked-specifications-reports/>
- In Reply To:** [Call for Linked Research](#)
- Notifications Inbox:** <https://linkedresearch-reports/>
- Annotation Service:** <https://linkedresearch-reports/>
- Published:** 2017-09-29
- Modified:** 2017-10-02
- License:** [CC BY 4.0](#)

The **Abstract** section states: "This article describes the structure and Notifications, its test suite, and evaluation reports."

The **Introduction** section is partially visible at the bottom.

A "Save As Document" dialog box is open in the center, showing the following details:

- Save to:** ☐ Set Inbox, ☐ Set Annotation Service
- Save to URL:** <https://hvdsonp.info/storage/sarven-ldn.html> (with a "Browse" button)
- Media resources:** media, atom, dokieli-rww-h-copy, dokieli-rww-my-copy, rss
- Article will be saved at:** <https://hvdsonp.info/storage/sarven-ldn.html>
- Location of media resources:** Use references as is
- ☒ Derivation data
- Save** button

The right sidebar contains a user profile for "Herbert Van de Sompe" and a grid of icons for various actions: Share, Reply, Review, New, Open, **Save As** (highlighted with a red box), Memento, Edit, Source, Print, Embed Data, and Local Storage. Below the icons are tabs for "Native", "csarven", "Basic", and "LNCS", and a section for "ACM", "W3C-ED", and "DesignIssues".

At the bottom right, a table lists article statistics:

| Category     | Value            |
|--------------|------------------|
| Authors      | Sarven Capadisli |
| Reading time | 30 minutes       |
| Characters   | 22651            |
| Words        | 2680             |
| Lines        | 400              |
| A4 Pages     | 9                |

# Review the Derivation Copy

The screenshot shows a web browser window with the address bar displaying <https://hvdsomp.info/storage/sarven-ldn-paper.html>. The page has a navigation menu with links: HOME, ABOUT, CV, LIBRARY, ARTICLES, and ATOM. The main heading is "Linked Specifications and Implementation Reports". Below this, the authors are listed as Sarven Capadisli. The page includes several links for identifier, reply, notifications inbox, and annotation service. The publication date is 2017-09-29. A red box highlights the following information:

- Derived From: <http://csarven.ca/linked-specifications-reports>
- Derived On: 2017-12-07
- Modified: 2017-10-02

The license is CC BY 4.0. The right sidebar contains a user profile for Herbert Van de Sompe, a grid of icons for various actions (Share, Reply, Review, New, Open, Save As, Memento, Edit, Source, Print, Embed Data, Local Storage), and a table of document statistics.

|              | Native | csarven | Basic | LNCS |
|--------------|--------|---------|-------|------|
| ACM          |        |         |       |      |
| W3C-ED       |        |         |       |      |
| DesignIssues |        |         |       |      |

|              |                  |
|--------------|------------------|
| Authors      | Sarven Capadisli |
| Reading time | 30 minutes       |
| Characters   | 22772            |
| Words        | 2685             |
| Lines        | 373              |
| A4 Pages     | 8                |

<https://hvdsomp.info/storage/sarven-ldn-paper.html>

# Send a Notification to Announce the Review

**Share resource**

Send a notification about <https://hvdsomp.info/storage/sarven-ldn-paper.html>

Select from contacts

- ☐ Ruben Verborgh
- ☒ Sarven Capadisli
- ☐ Amy Guy

To

WebID or article IRI (one per line)

Note

Sarven, I made a copy of your paper in my pod and included annotations and comments. I suggest you take those into account and publish a new

Share

**HOME ABOUT CV LIBRARY**

## Linked Specifications and

**Authors**  
Sarven Capadisli

**Identifier:** <https://hvdsomp.info/storage>

**In Reply To:** [Call for Linked Research](#)

**Notifications Inbox:** <https://linkedresearch.org/reports/>

**Annotation Service:** <https://linkedresearch.org/annotation/csarven.ca/linked-specifications-reports/>

**Published:** 2017-09-29

**Derived From:** <http://csarven.ca/linked-specifications-reports>

**Derived On:** 2017-12-07

**Modified:** 2017-10-02

**License:** [CC BY 4.0](#)

**Herbert Van de Sompe**

**Share** **Reply** **Review**

**New** **Open** **Save As**

**Memento** **Edit** **Source**

**Print** **Embed Data** **Local Storage**

**Native** **csarven** **Basic** **LNCS**

**ACM** **W3C-ED** **DesignIssues**

**Authors** Sarven Capadisli

**Reading time** 30 minutes

**Characters** 23464

**Words** 2771

**Lines** 375

**A4 Pages** 8

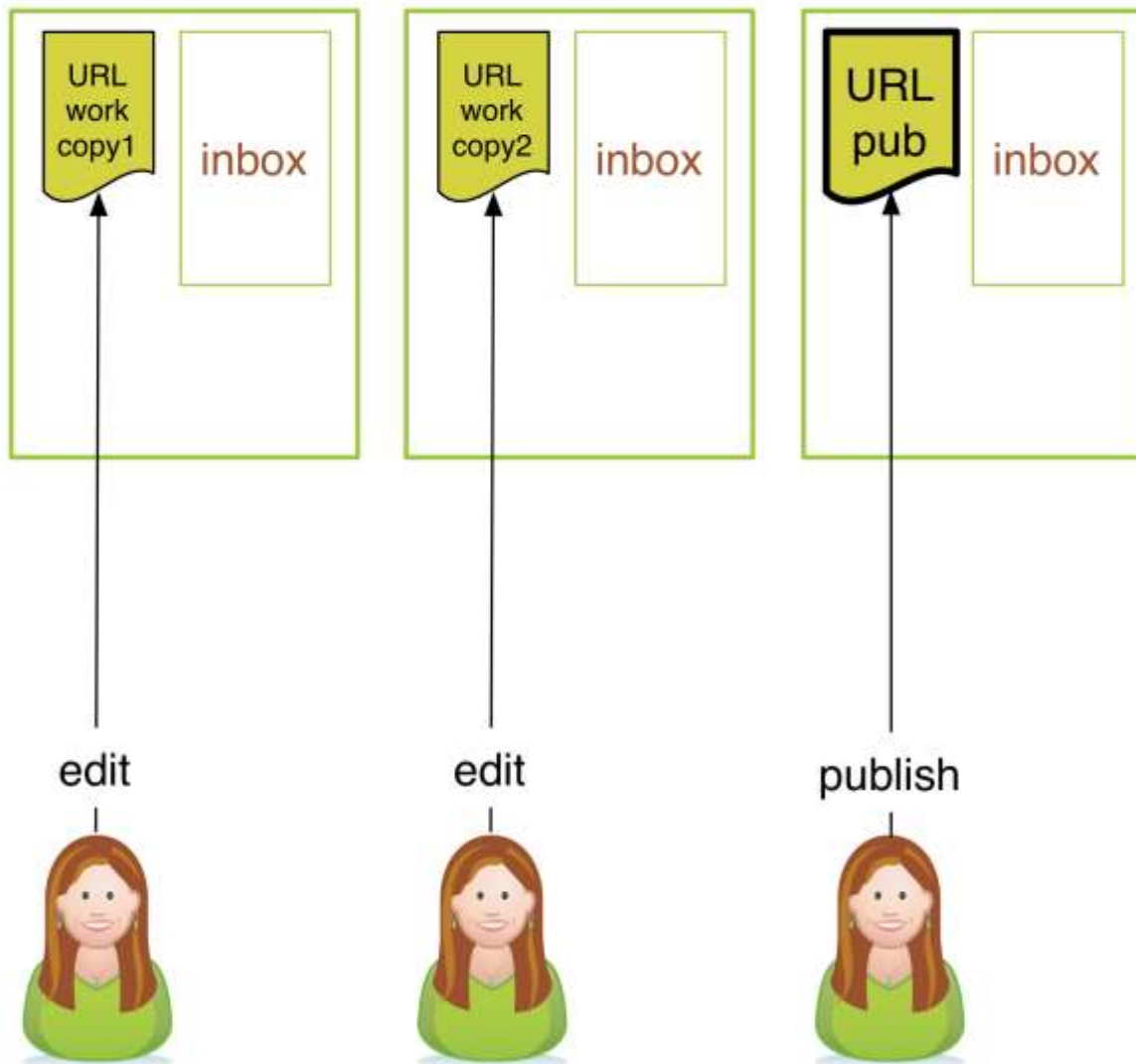
<https://hvdsomp.info/storage/sarven-ldn-paper.html>

# Receive the Notification that Announces the Review

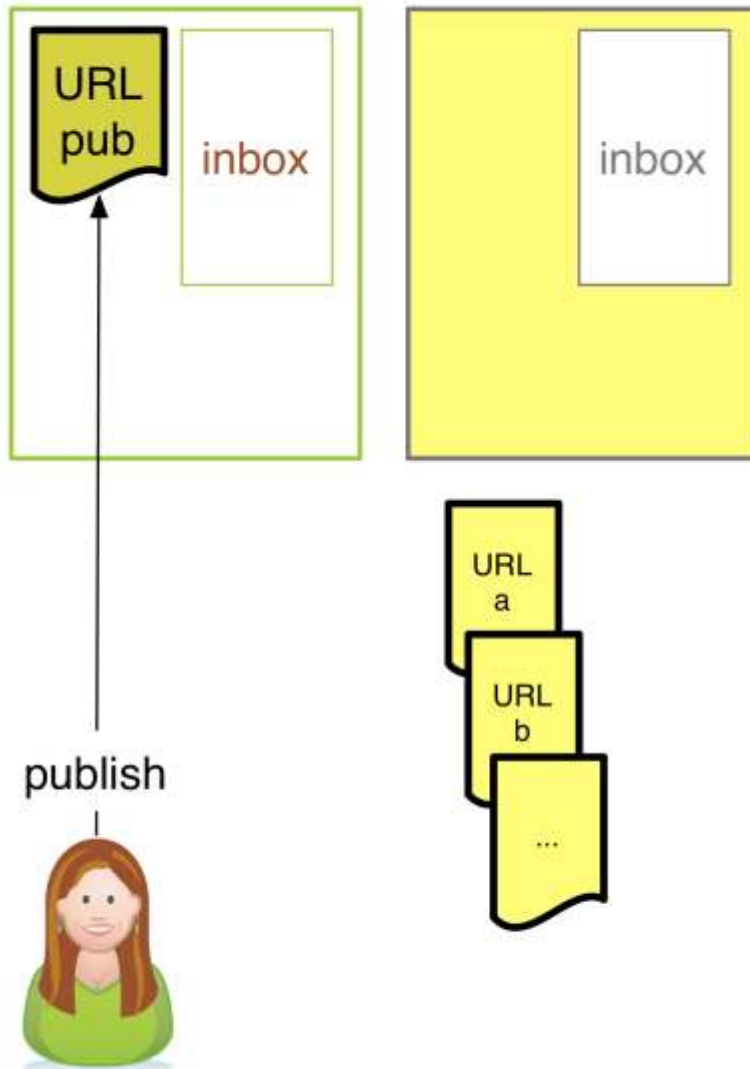
|         |   |
|---------|---|
| Types   | <a href="#">Announce</a>  |
| Object  | <a href="https://hvdsomp.info/storage/sarven-ldn-paper.html">https://hvdsomp.info/storage/sarven-ldn-paper.html</a>   |
| Types   | <a href="http://schema.org/CreativeWork">http://schema.org/CreativeWork</a><br><a href="http://rdfs.org/sioc/ns#Post">http://rdfs.org/sioc/ns#Post</a><br><a href="http://www.w3.org/ns/prov#Entity">http://www.w3.org/ns/prov#Entity</a><br><a href="http://xmlns.com/foaf/0.1/Document">http://xmlns.com/foaf/0.1/Document</a><br><a href="https://www.w3.org/ns/activitystreams#Article">https://www.w3.org/ns/activitystreams#Article</a> |
| License | <a href="https://creativecommons.org/licenses/by/4.0/">https://creativecommons.org/licenses/by/4.0/</a>   |
| Updated | 2017-12-07 18:49:47   |
| Summary | Sarven, I made a copy of your paper in my pod and included annotations and comments. I suggest you take those into account and publish a new version.   |
| Actor   | <a href="http://orcid.org/0000-0002-0715-6126">http://orcid.org/0000-0002-0715-6126</a>   |
| License | <a href="https://creativecommons.org/publicdomain/zero/1.0/">https://creativecommons.org/publicdomain/zero/1.0/</a>   |
| To      | <a href="http://csarven.ca/#i">http://csarven.ca/#i</a>   |

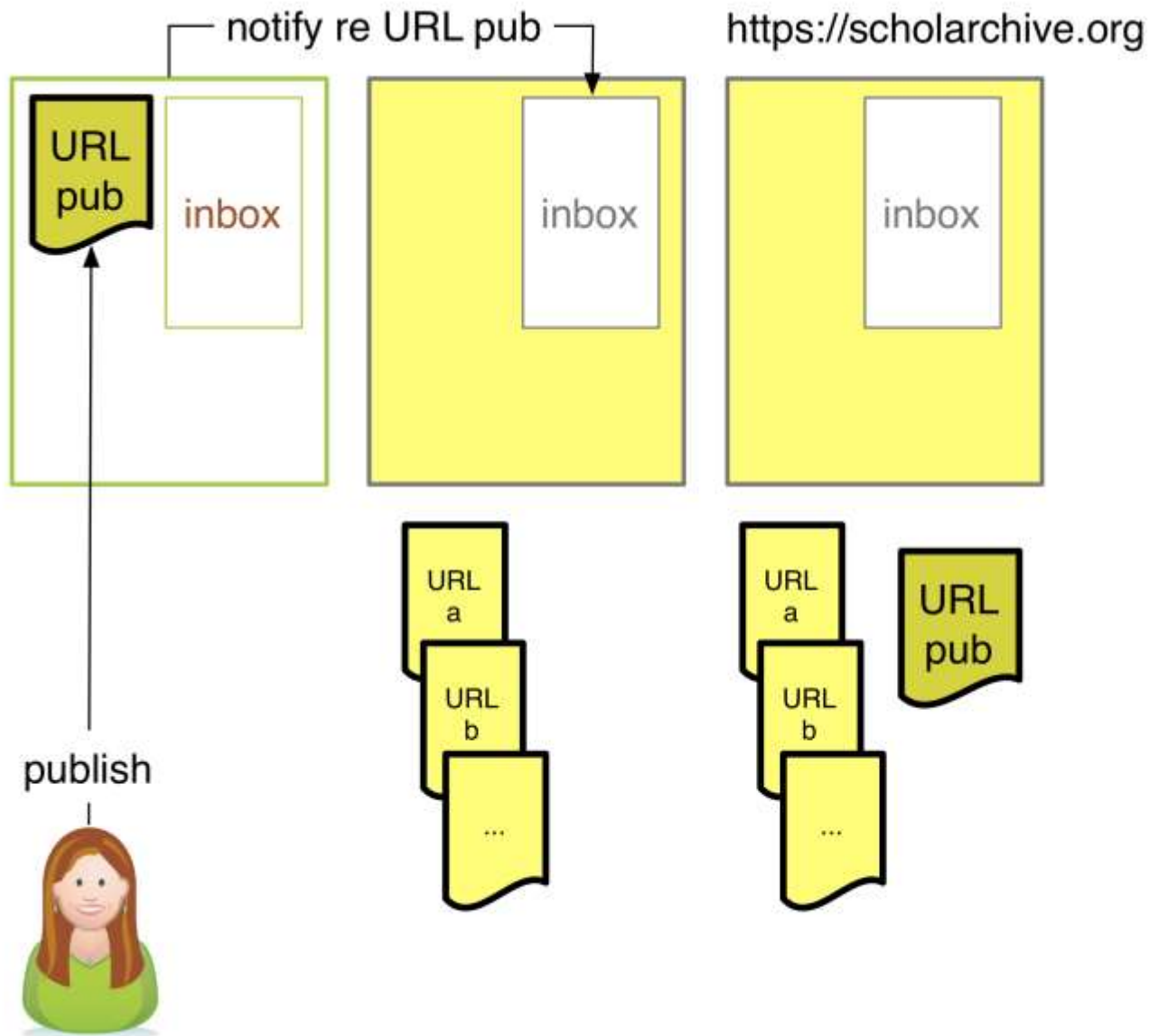
# Beyond dokie.li ...

- dokie.li provides a glimpse of a possible technical approach for decentralized scholarly communication
- Concrete technical challenges arise related to aspects that are crucial from a scholarly communication perspective, including:
  - authentication & authorization - issues with WebID/TLS, OIDC
  - versioning - not supported by Linked Data Platform
  - collaborative writing
- Conceptual questions arise regarding how to fulfill the core functions of scholarly communication using this technical paradigm:
  - registration
  - certification
  - awareness
  - archiving

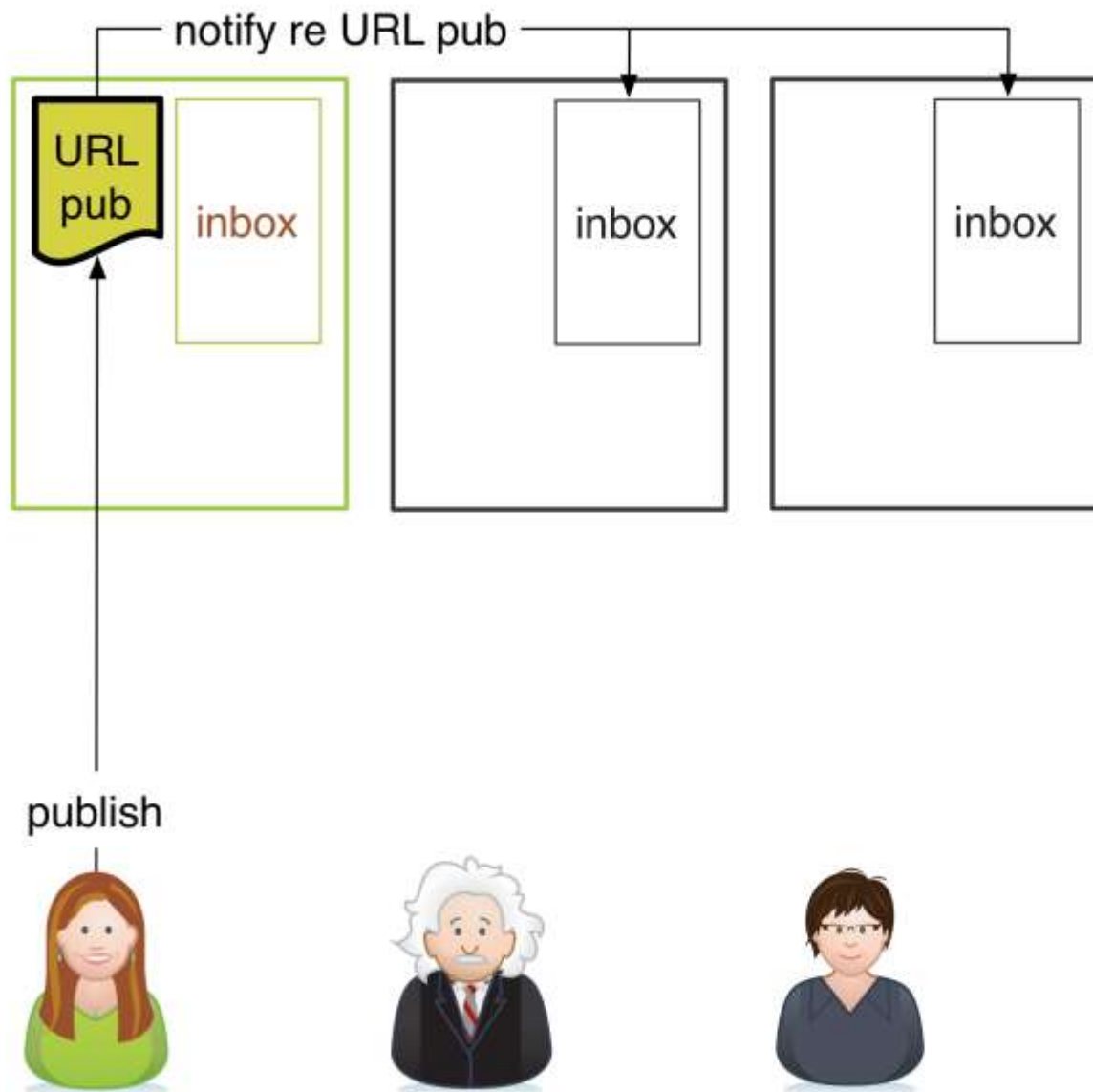


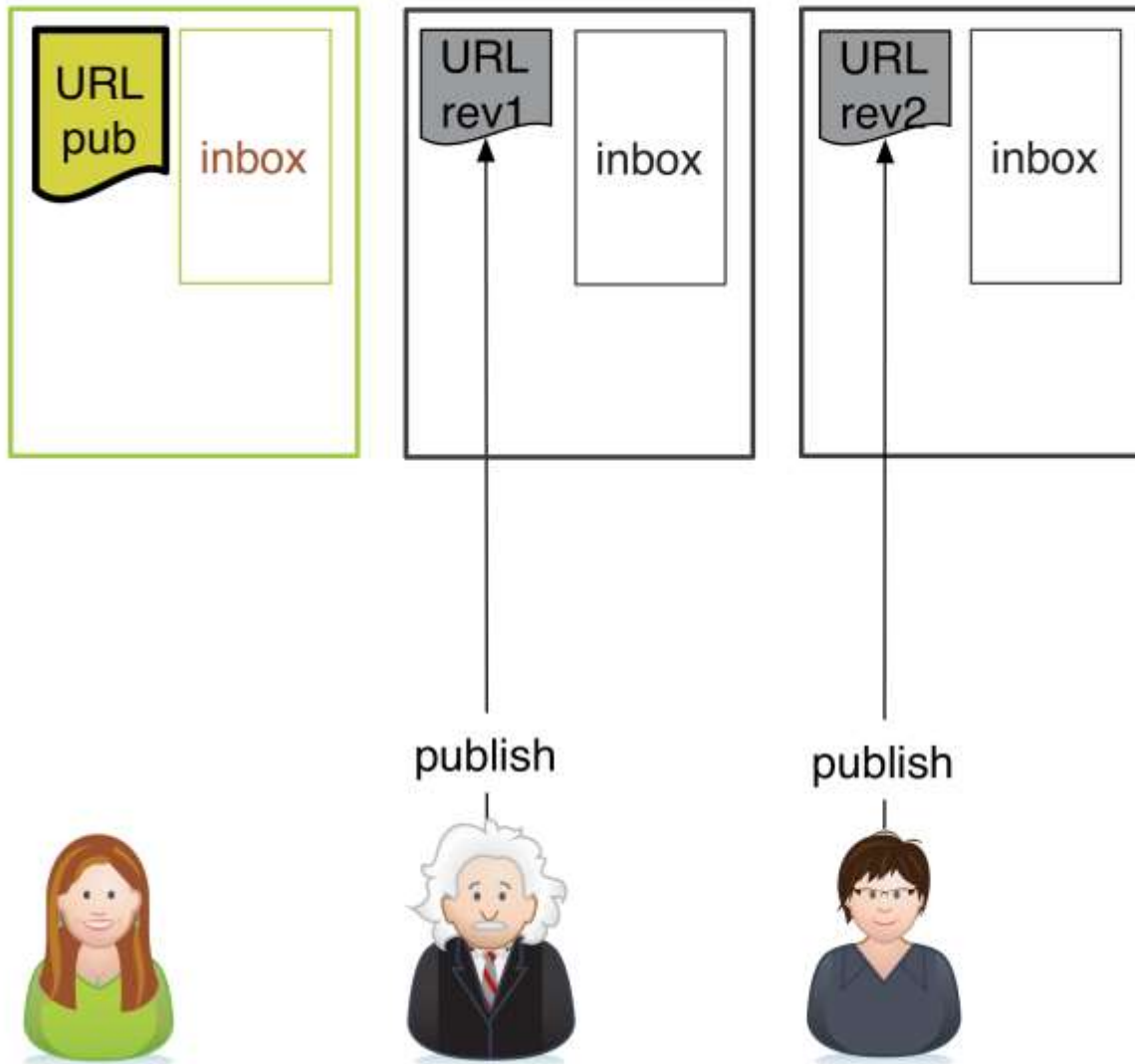
<https://scholararchive.org>

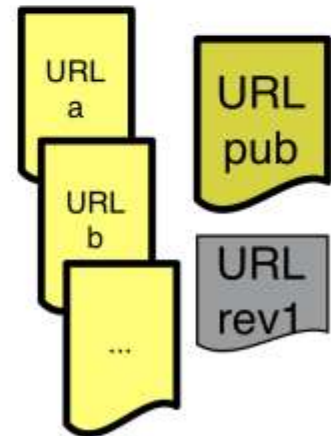
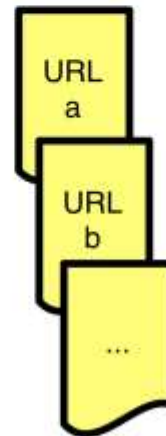
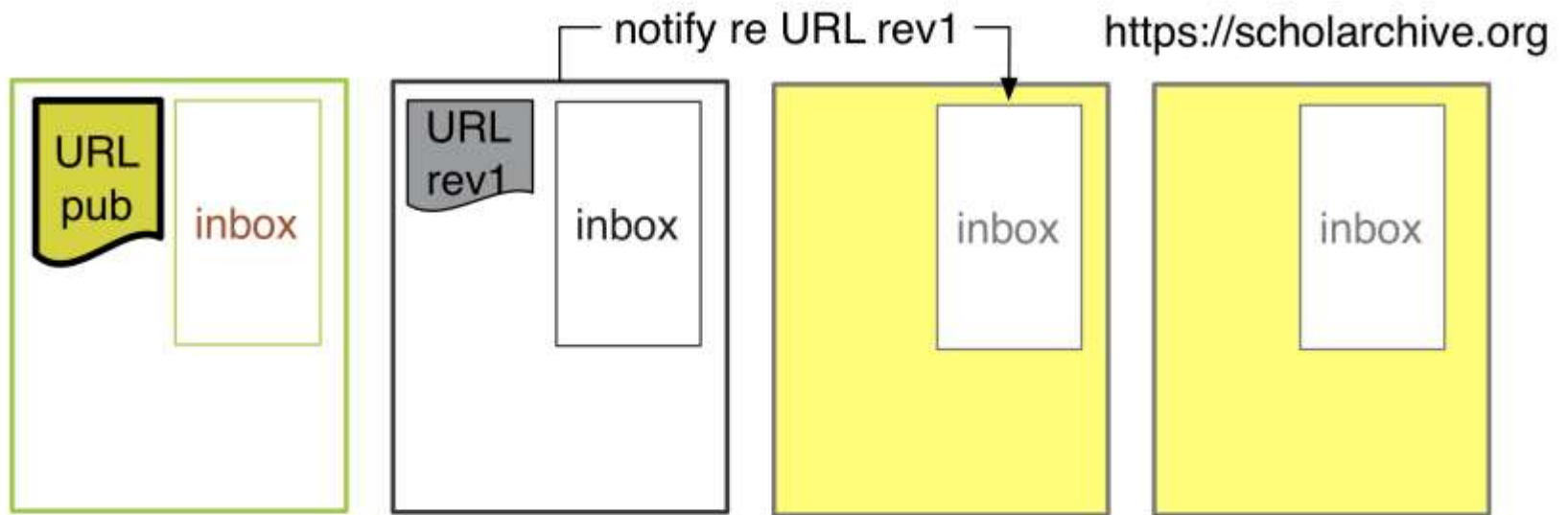


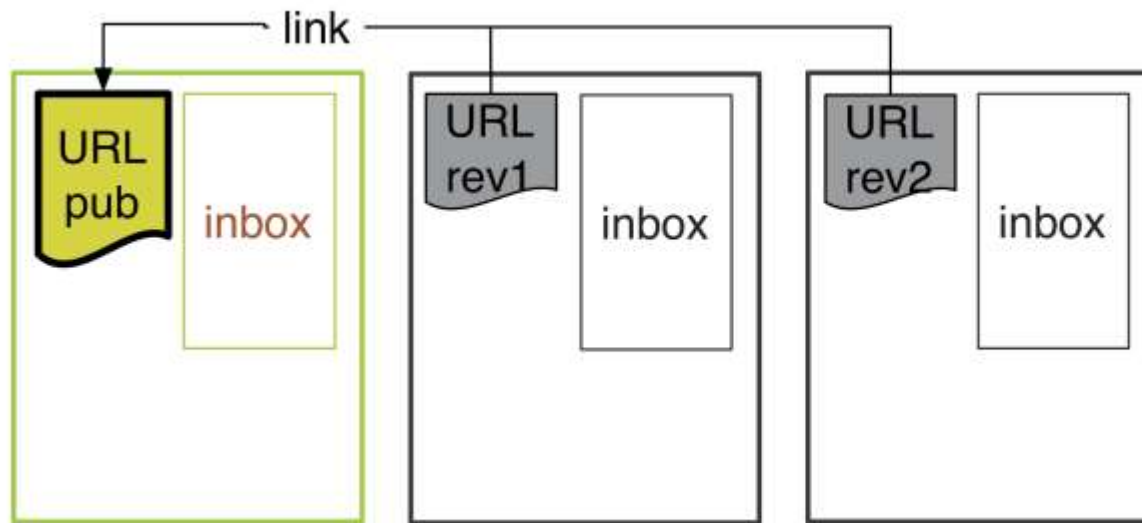


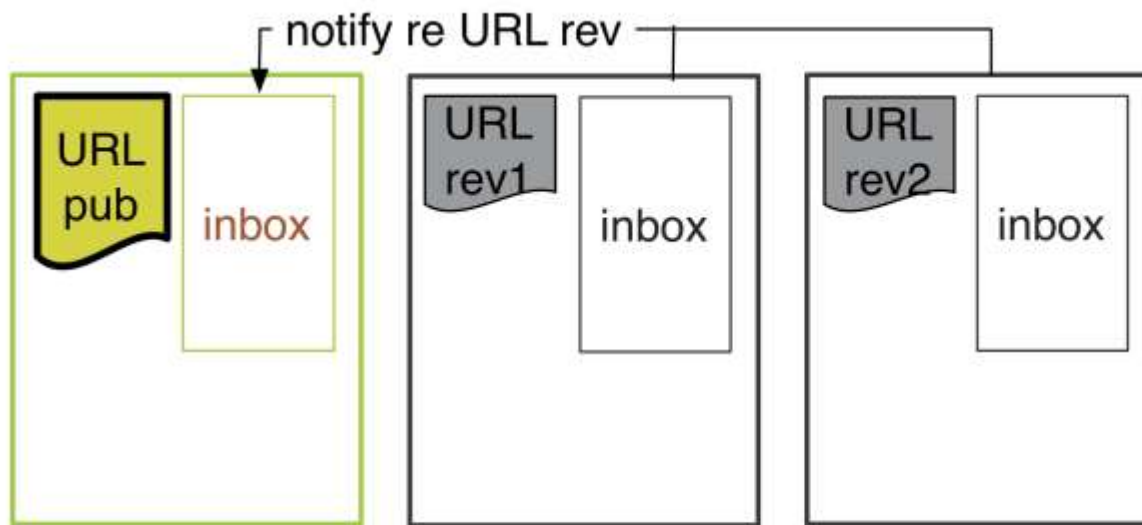


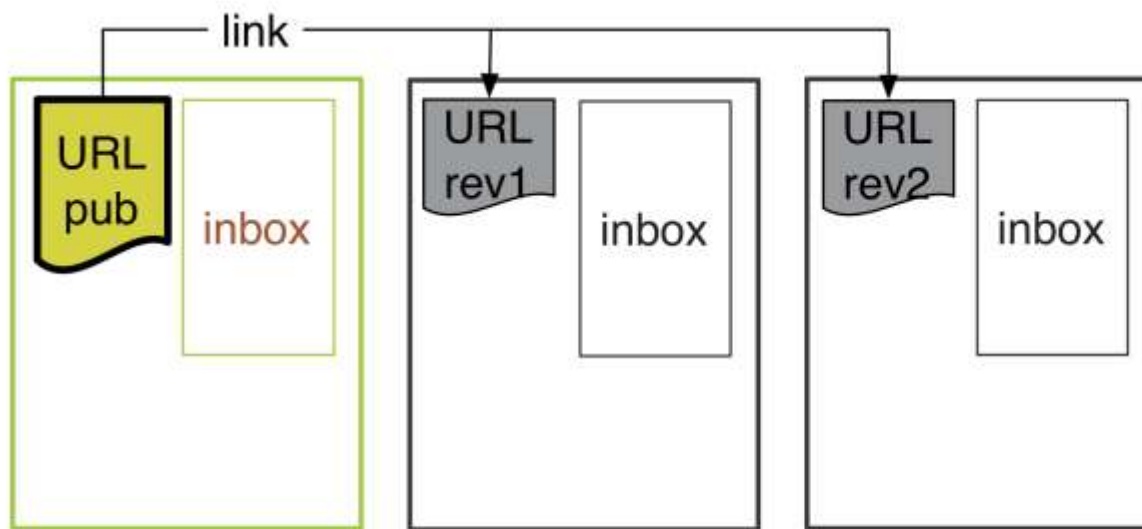


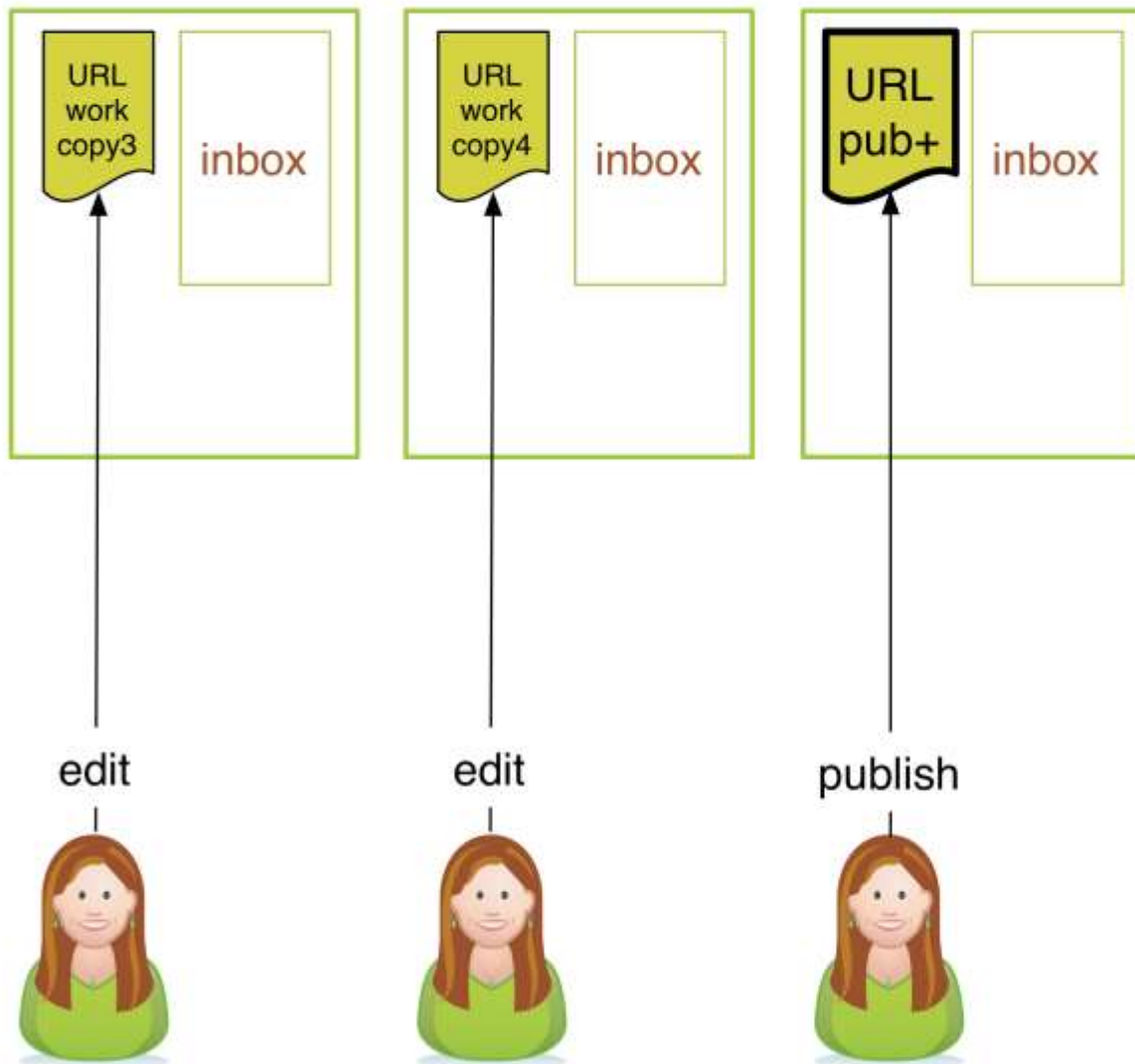












# Technical Inspiration: Amy Guy's sloph



Amy Guy (2017) sloph  
<https://rhiao.co.uk/>



# Overview of Personal Activities



# A Personal Activity

Tuesday the 5th of September at 7:25pm (+01:00)



# Personal Web Observatory

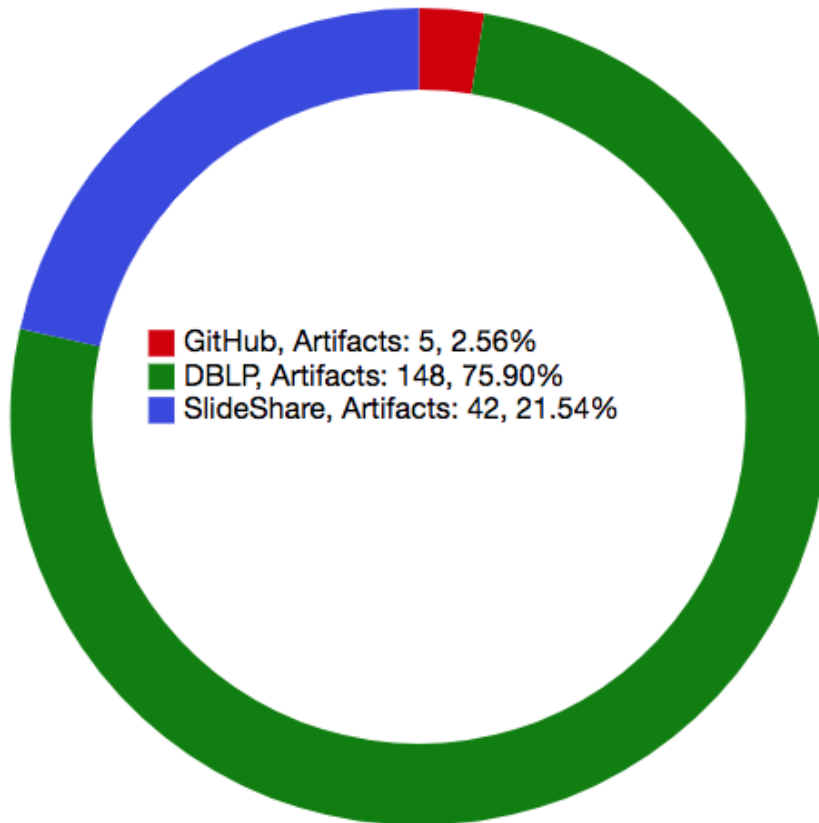
- Records Amy's activities
  - Some by leveraging web portal APIs using “connectors”
  - Some by manual entry
- Observatory adheres to a variety of W3C standards e.g. webmention, Activity Streams, ActivityPub, Micropub, ...
- Activities recorded in Event Store
- Inspired by:
  - The Quantified Self movement, i.e. lifelogging, self-tracking
  - The Locker Projectthat share the notion of aggregating a person's web traces into a personal web environment.

# Personal Scholarly Web Observatory

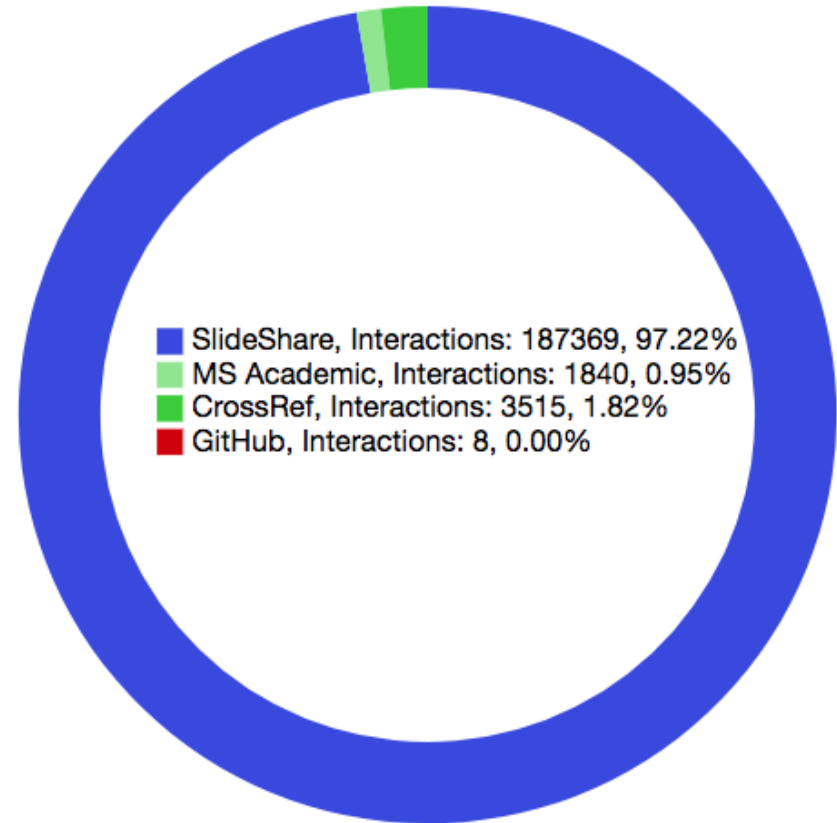
- Automatically tracks the researcher's web activities, including created artifacts, in a variety of portals
- Records metadata about scholarly artifacts that a researcher deposits in Web portals in a personal pod
- Records metadata about interactions that others have with those artifacts
- Event Store holds the metadata
- Activity metadata contains artifact URI, which is a seed for archiving the actual artifact

# My (utterly experimental) Scholarly Web Observatory

Artifacts



Interactions



# My (utterly experimental) Scholarly Web Observatory

## Interactions via MS Academic

| Artifact  | Interactions |
|---|--------------|
| <a href="#">co authorship networks in the digital library research community</a>                        | 440          |
| <a href="#">a principal component analysis of 39 scientific impact measures</a>                         | 264          |
| <a href="#">toward alternative metrics of journal impact a comparison of download and citation data</a> | 160          |
| <a href="#">clickstream data yields high resolution maps of science</a>                                 | 123          |
| <a href="#">usage impact factor the effects of sample characteristics on usage based impact metrics</a> | 68           |

## Interactions via SlideShare

| Artifact  | Interactions |
|---|--------------|
| <a href="#">Memento: Time Travel for the Web</a>  | 11825        |
| <a href="#">Paint-Yourself-In-The-Corner Infrastructure</a>                                 | 11662        |
| <a href="#">An Overview of the OAI Object Reuse and Exchange Interoperability Framework</a> | 11209        |
| <a href="#">Hiberlink: Investigating Reference Rot, December 2013</a>                       | 8884         |
| <a href="#">An HTTP-Based Versioning Mechanism for Linked Data</a>                          | 7140         |


# My (utterly experimental) Scholarly Web Observatory

## Artifacts and Interactions over time





# Organizational Inspiration: Shan Sutton et al.



## Accelerating academy-owned publishing

November 27, 2017

By Shan Sutton

*(Note: This post was collaboratively written by several members of the ARL project group described below.)*

How can libraries develop more robust mechanisms for supporting services and platforms that accelerate research sharing and increase participation in scholarship? What kind of funding and partnerships do scholarly communities, public goods technology platforms, and open repositories need to transform into true, academy-owned open access publication systems? In an initiative formerly known as "[Red OA](#)," these are the questions a group of ARL deans and directors have recently committed to address through engagement with scholarly communities and open source platform developers.

Search...

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Shan Sutton et al. (2017) Accelerating Academy-Owned Publishing  
<http://intheopen.net/2017/11/accelerating-academy-owned-publishing/>



# Organizational Inspiration: David W. Lewis

## The 2.5% Commitment

David W. Lewis

Dean of the IUPUI University Library

dlewis@iupui.edu

September 11, 2017

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**The Commitment:** Every academic library should commit to contribute 2.5% of its total budget to support the common infrastructure needed to create the open scholarly commons.

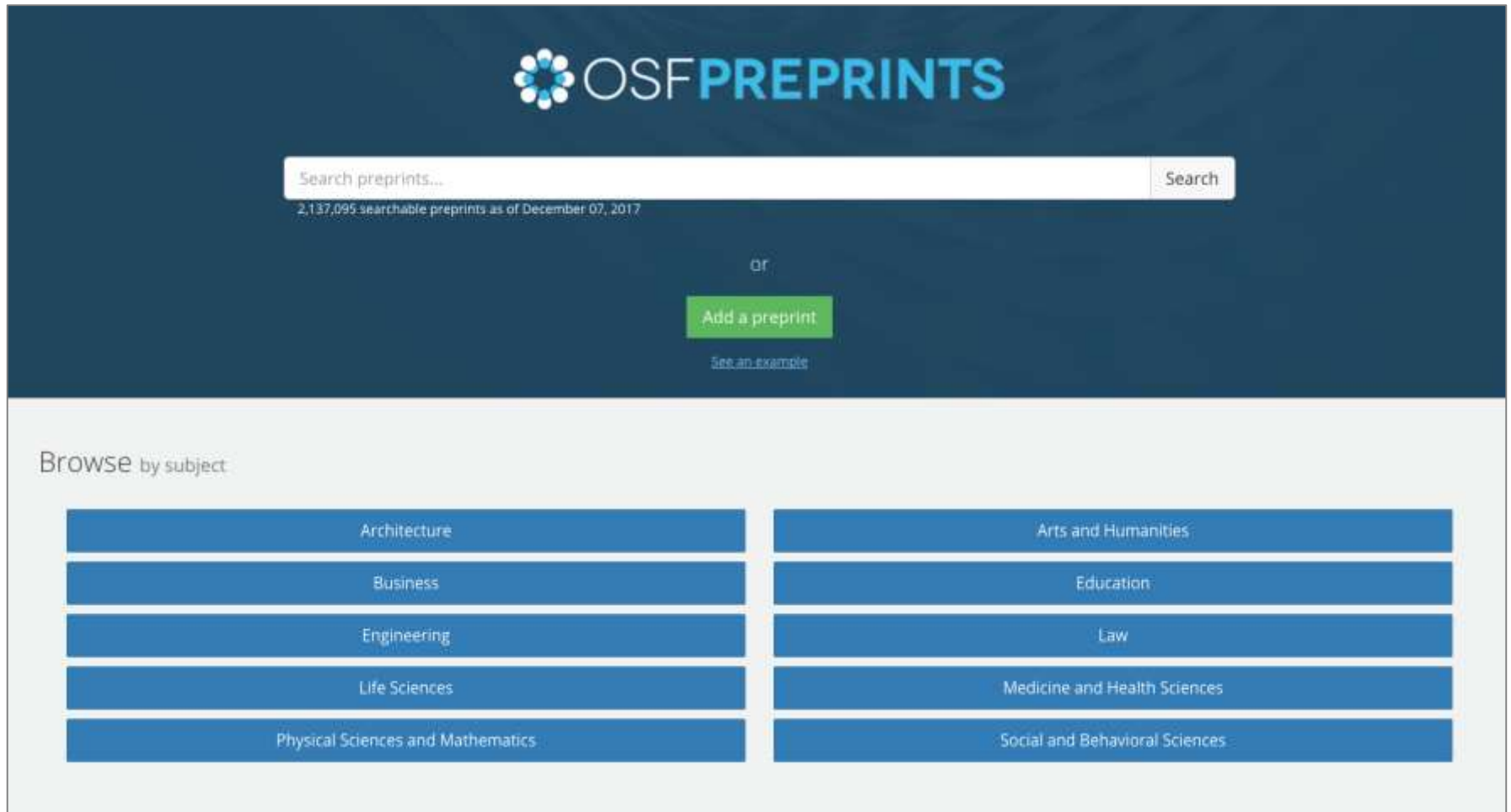
# Organizational Inspiration: Björn Brembs

*the American ARPANET took shape thanks to well-managed state subsidies and collaborative research environments and the Soviet network projects stumbled because of unregulated competition among self-interested institutions, bureaucrats, and others.*

We need the same collaborative spirit if institutions are to abandon subscriptions, just as they cooperated to spend money to draw cables between institutions, even though they were separated by borders and even oceans. If in the 1980s, our institutions collaborated across nations and continents to spend money on a research infrastructure nobody yet knew, can't they collaborate now to save money being wasted on an obviously outdated infrastructure? Has neoliberal worship of competition poisoned our academic institutions to such a degree, that within 25 years they went from cooperating even if it means spending money to never cooperating even if it means saving money? I refuse to believe that, even though that's what some try to tell me.

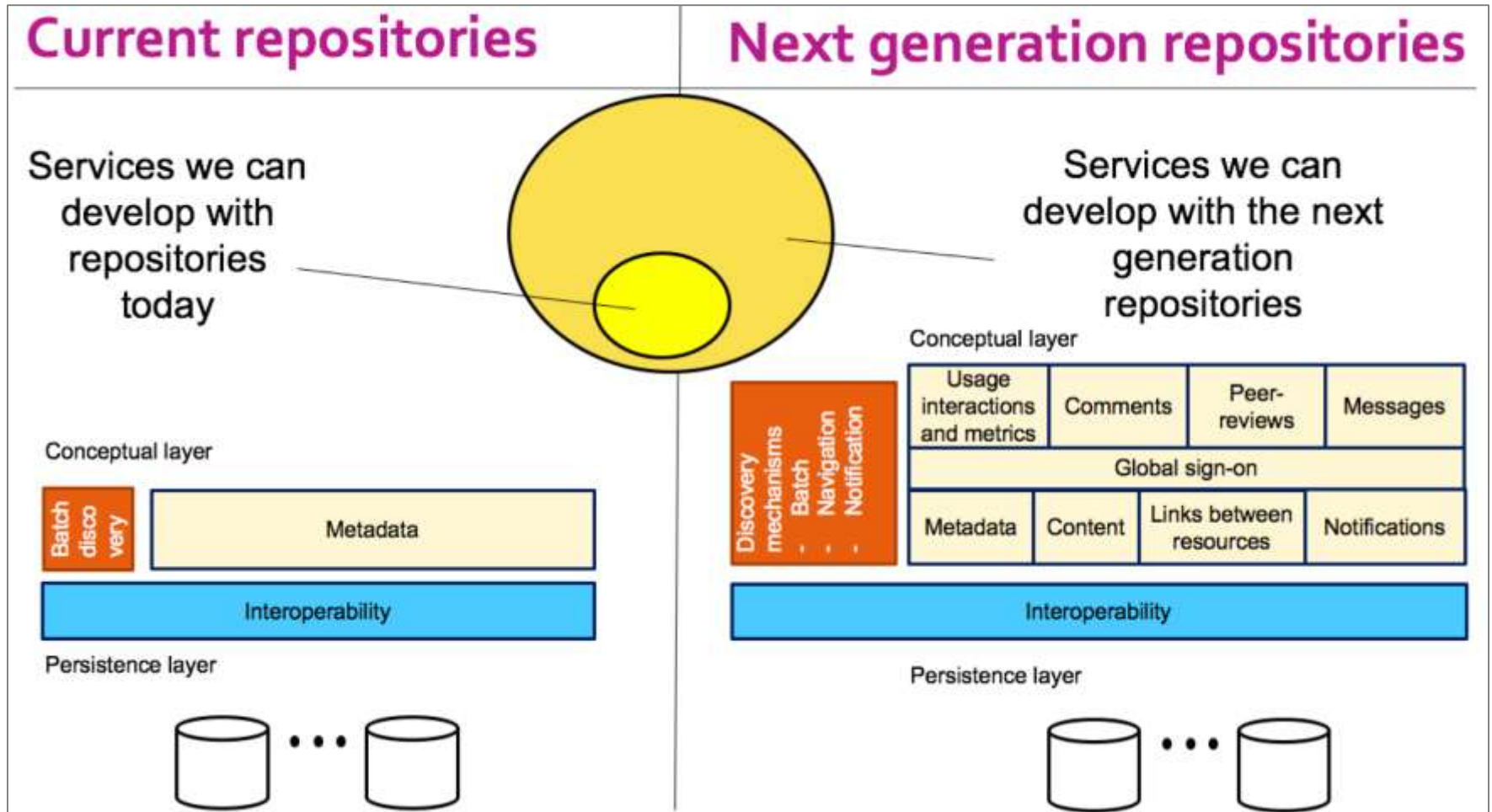
Instead of trying to tell scholars to behave ethically in spite of the downsides to them personally, maybe we ought to tell institutions that our infrastructure is outdated and that we need the functionalities everybody else but academics are enjoying? We need to get the same mechanisms going that in the 1980s got our universities to invest in networking hardware and cables, despite a functioning telephone and snail mail system. Cancelling subscriptions doesn't mean losing access, so nobody can tell me that canceling subscriptions is more difficult than installing compatible networking hardware across the globe. I'm now paying for my phone bills out of my budget, while my skype calls are provided by my university. Maybe rather than trying to convince scholars to choose the ethical over the advantageous, it would be more effective to ask our institutions to provide us with modern technology and have those who still want to use the legacy version pay for it themselves?

# Path 1: Discipline-Oriented Preprint Servers

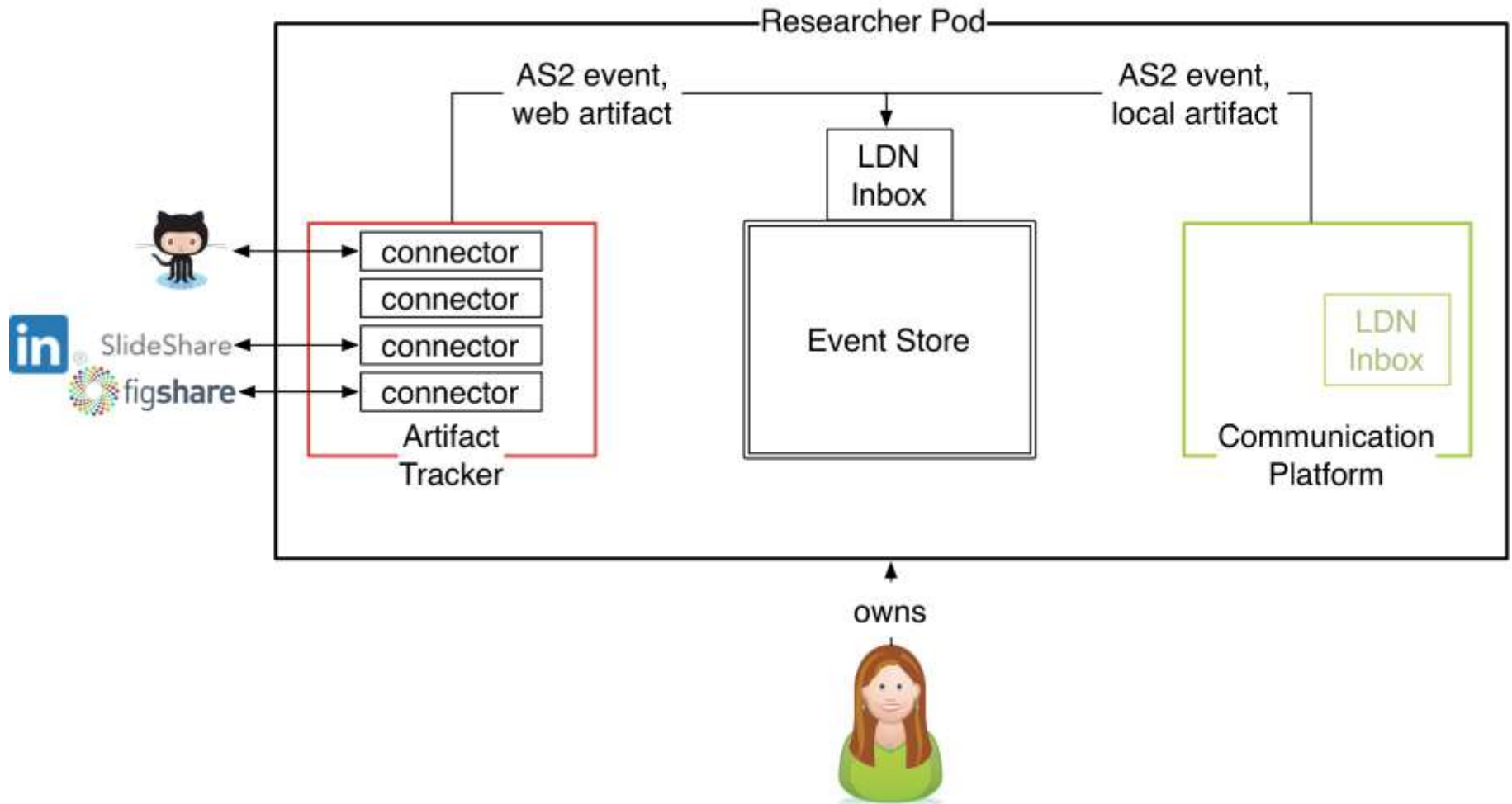


<https://osf.io/preprints/>

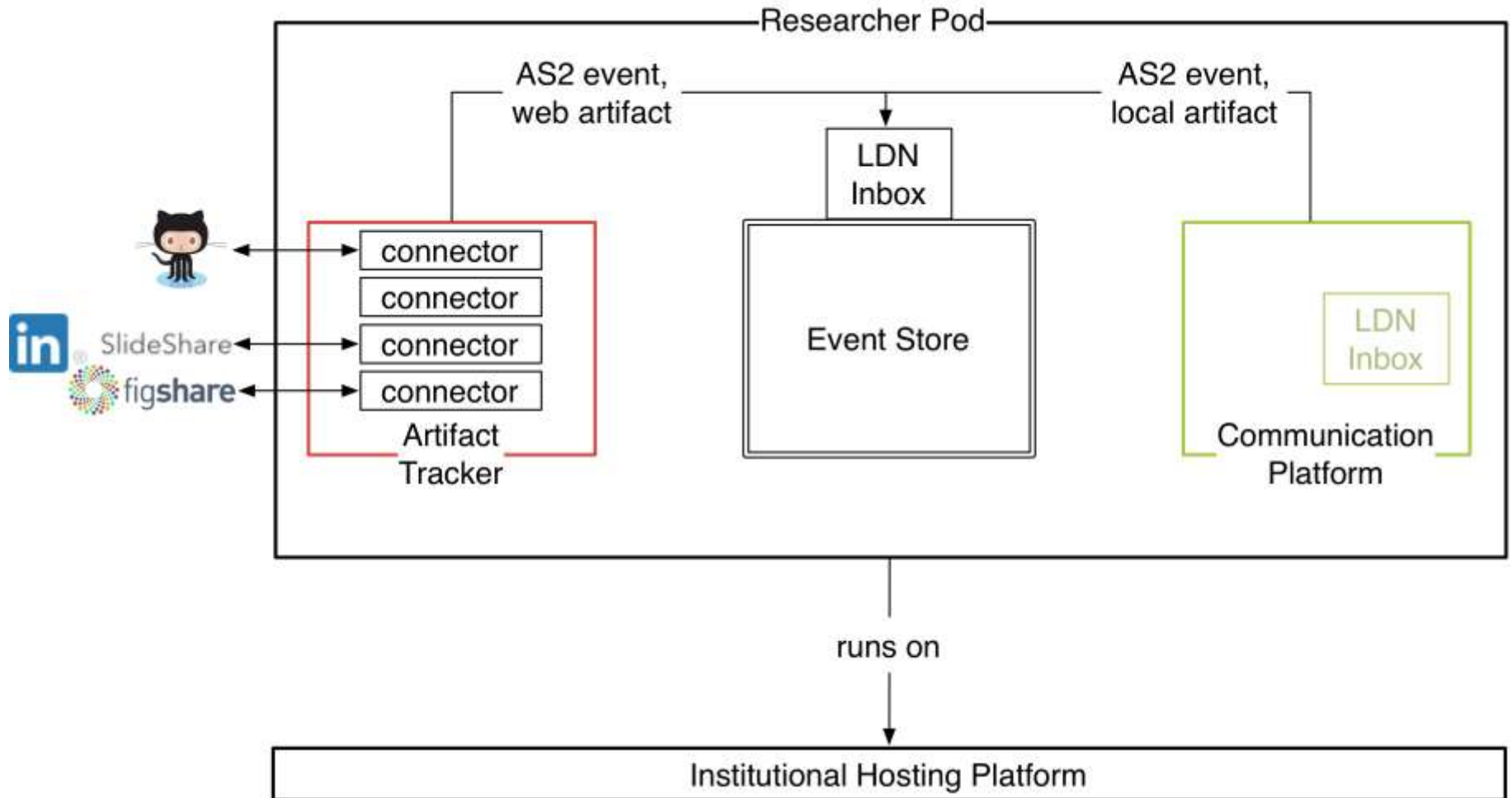
## Path 2: Institution-Based Repositories



## Path 3: Researcher Pod ???

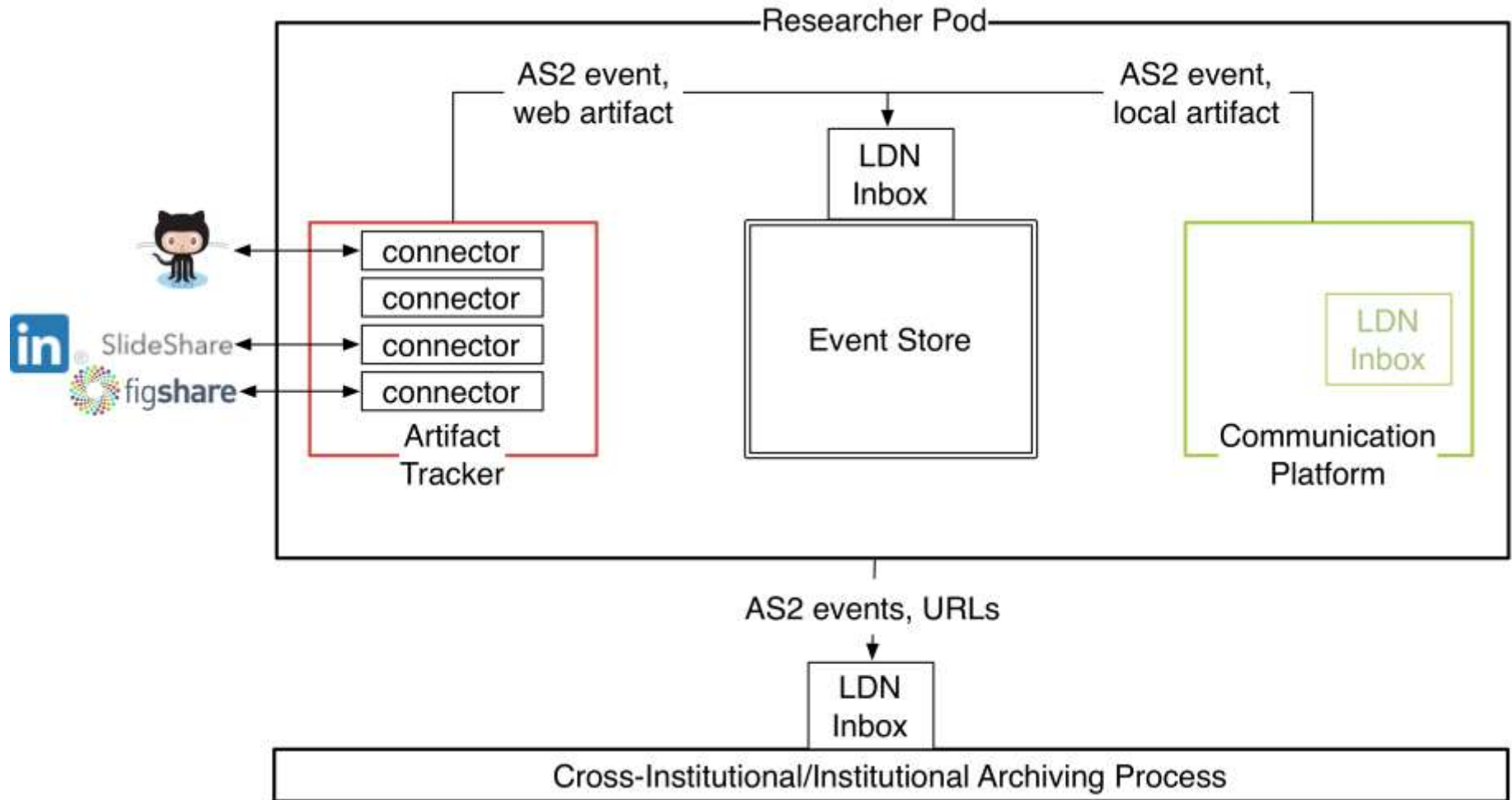


# Researcher Pod: Institutional Hosting





# Researcher Pod: Cross-Institutional/Institutional Archiving



# Contributor Centric

- The researcher has a personal domain for scholarly communication
  - Not institution bound, but truly personal
- A researcher pod for scholarly activities operates in the researcher's domain
  - The researcher takes responsibility for publication and review
  - David Rosenthal: *"Persistence through Self-Interest"*
- The researcher pod has three functions:
  - self-publishing: the researcher's papers, overlay reviews, comments, annotations, ...
  - notifying: the discipline-oriented social network glue
  - self-tracking: keep track of the researcher's artifacts in web portals



# Contributor Centric

- A researcher pod provides a comprehensive overview of the researcher's contributions and interactions of peers with those contributions
- The researcher pods are globally interoperable via support of a suite of standards
  - the essential standards exist
  - the tools are currently brittle (understatement)

# Institution Enabled

- Institutions provide a hosting platform and operational support for their researchers' pods
  - a researcher's domain resolves to the institutional platform
- Institutions archive their researchers' contributions by monitoring their pods and capturing new resources
  - Aggregation of institutional scholarly web archives?
  - Cross-institutional web archive, cf. LOCKSS?
  - Cross-institutional IPFS/DAT archive (HTTP bridge essential)?

# Mobility & Persistence

Institution A



<https://alice.info>

Alice's  
researcher  
pod



<https://carol.info>

Carol's  
researcher  
pod

Institution B



<https://bob.info>

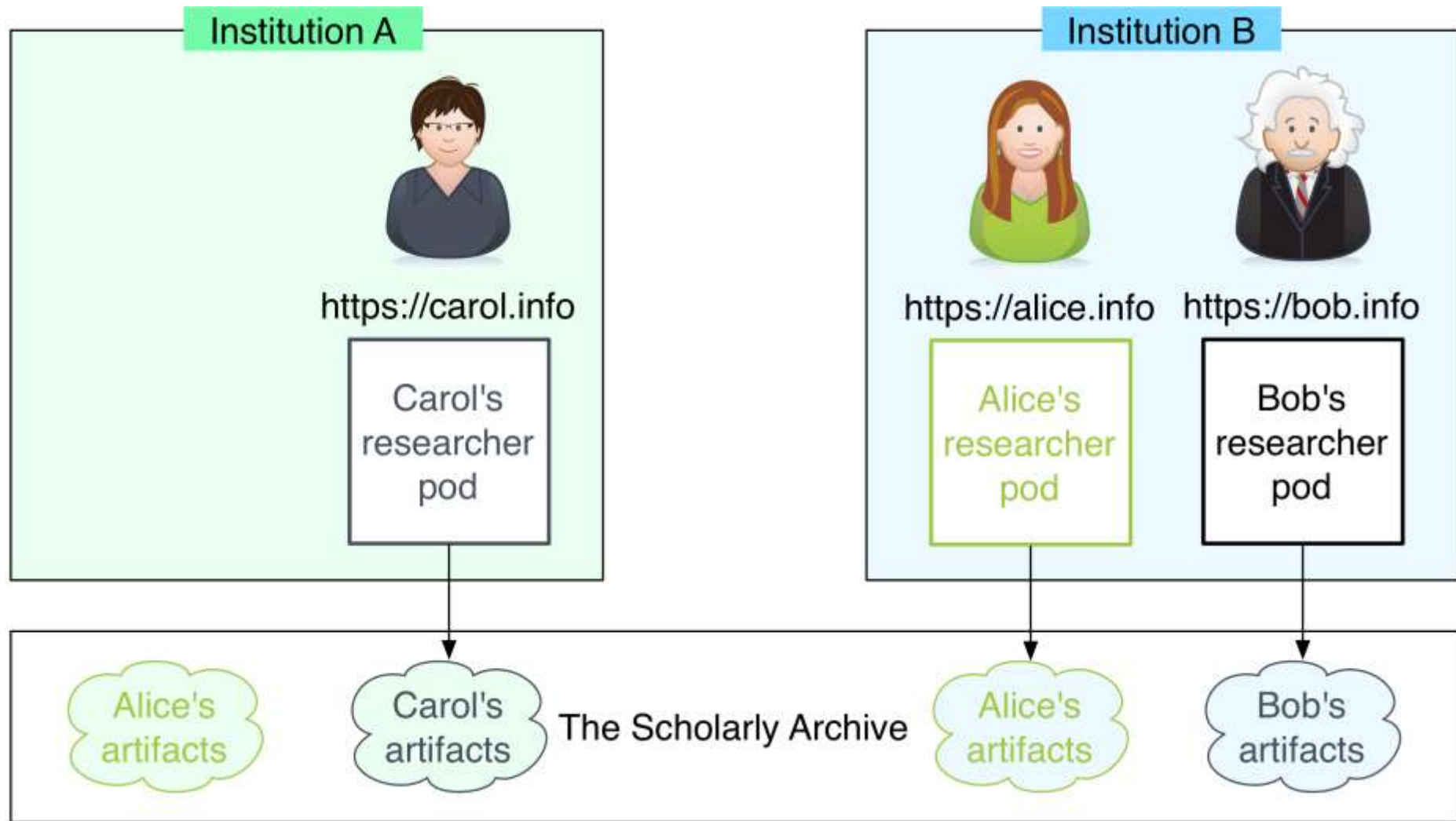
Bob's  
researcher  
pod



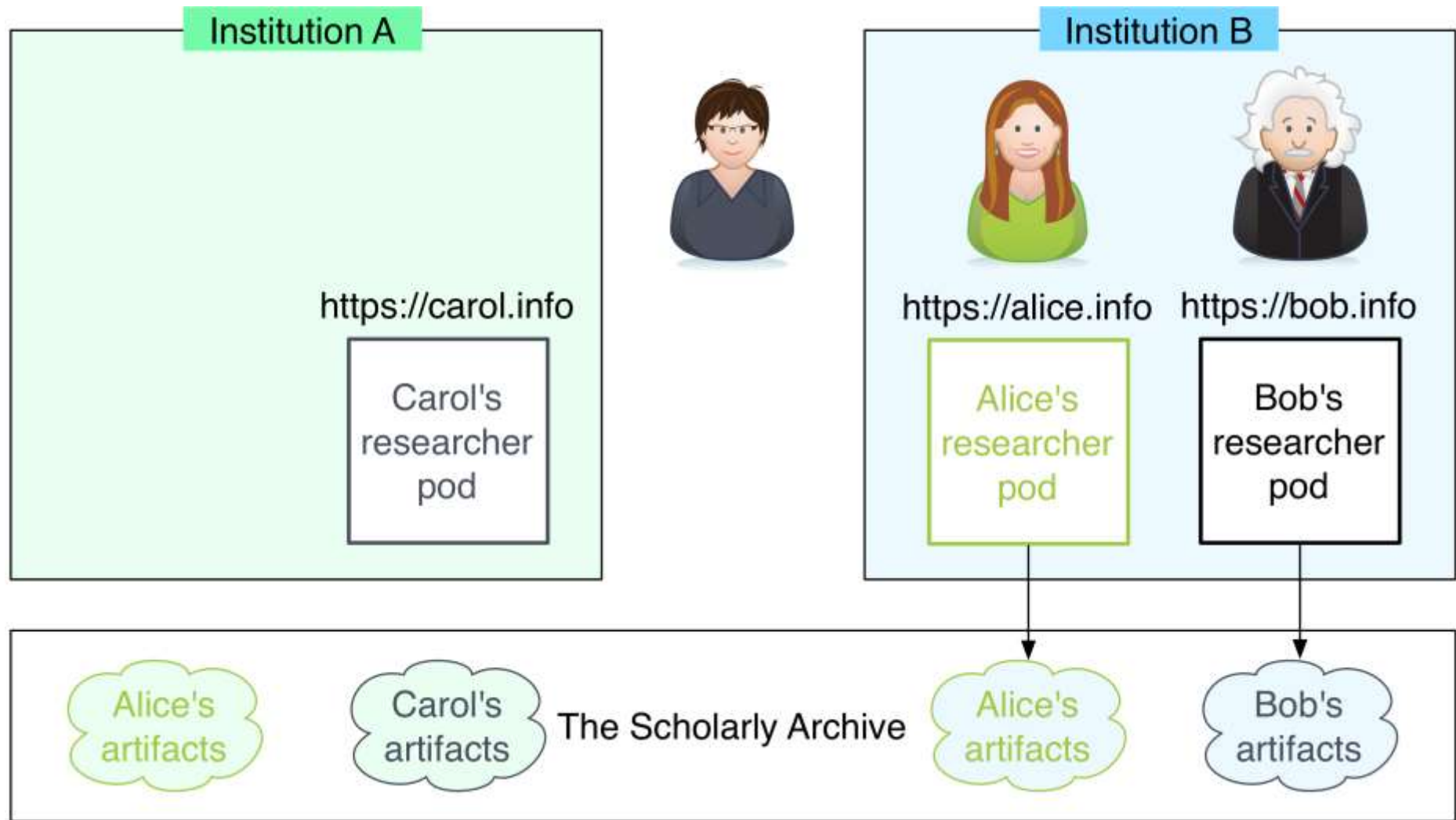
The Scholarly Archive



# Mobility & Persistence: Alice Changes Institution



# Mobility & Persistence: Carol Leaves Academia



# Mobility & Persistence: Carol Leaves Academia

Institution A



Institution B



<https://alice.info>

<https://bob.info>

Alice's  
researcher  
pod

Bob's  
researcher  
pod

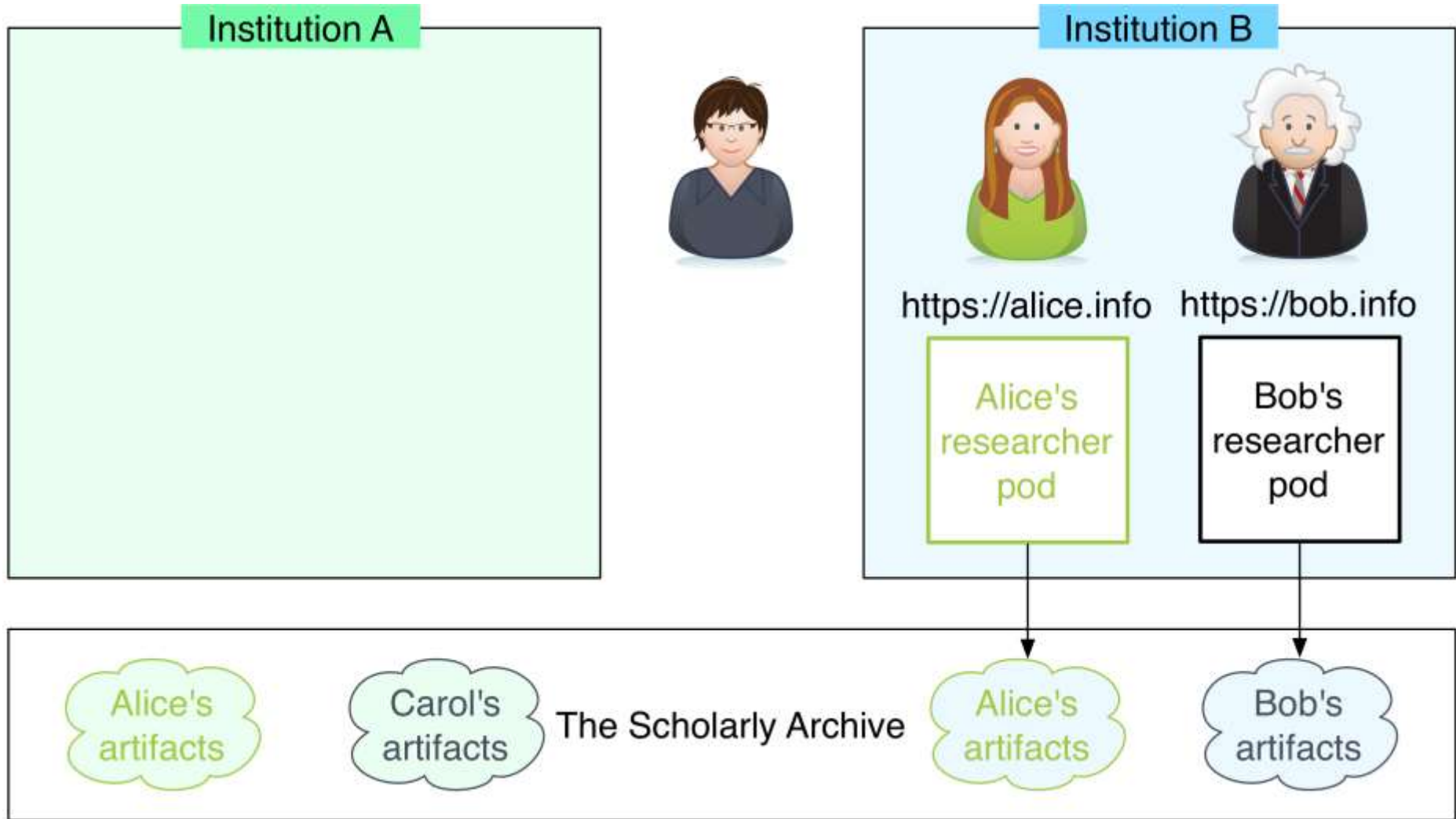
Alice's  
artifacts

Carol's  
artifacts

The Scholarly Archive

Alice's  
artifacts

Bob's  
artifacts



# Mobility & Persistence: Bob Passes Away

Institution A



Institution B



<https://alice.info>

Alice's  
researcher  
pod

<https://bob.info>

Bob's  
researcher  
pod

Alice's  
artifacts

Carol's  
artifacts

The Scholarly Archive

Alice's  
artifacts

Bob's  
artifacts





# Mobility & Persistence: Bob Passes Away

Institution A



Institution B



<https://alice.info>

Alice's  
researcher  
pod



Alice's  
artifacts

Carol's  
artifacts

The Scholarly Archive

Alice's  
artifacts

Bob's  
artifacts



# Mobility & Persistence


- Persistently linking to artifacts:
  - Alice moving from A to B: She holds on to her domain, links keep working
  - Carol and Bob give up on their pod: Technologies exist to make links to their artifacts lead directly into the archive, e.g. PIDs, Robust Links

# In Summary ...


- Think of researcher pods as a different kind of institutional repository
  - contributor-centric instead of document-centric
  - disciplinary component provided by social network functionality
  - built-in portability
  - archive-ready


# In Closing ...

## FORCE2017 Scholarly commons poll [+]

 How does this work?


### Can the scholarly commons be realised with existing technology? [+]

Your Vote: 10 | Score: 6.0 | 61 Votes [+] 





### Should the scholarly commons be one integrated system? [+]

Score: 2.7 | 61 Votes [+]




### Is the scholarly commons worth working on? [+]

Your Vote: 10 | Score: 8.3 | 63 Votes [+] 

















## Chat

3 days ago **aaafreecoldbeer** Hi  
**Victor** existing technologies yes,  
3 days ago but many new applications still use  
ful.

Enter a comment here... 

## Users

-  HerbertVandeSompel
-  JB
-  Crystal
-  Thomas
-  JB
-  Victor
-  PierreMontagano
-  Fiona
-  juliencolomb
-  HC
-  Anon
-  Heather
-  Elizabeth
-  EG

# Scholarly Communication: Deconstruct and Decentralize?

## A Bold Speculation Featuring



Alice



Bob



Carol

Herbert Van de Sompel

[@hvsomp](#)

Los Alamos National Laboratory