

Tipping the Sacred Cow

herbert van de sompel



@hvdsomp




http://newsletters.creativecow.net/newsletters/cowtippingheaders/COW_Tipping_630pixels.jpg

Cow tipping – Wikipedia, the free encyclopedia

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Cow tipping

From Wikipedia, the free encyclopedia

Cow tipping or **cow pushing** is the purported activity of sneaking up on a sleeping, upright **cow** and pushing it over for fun.



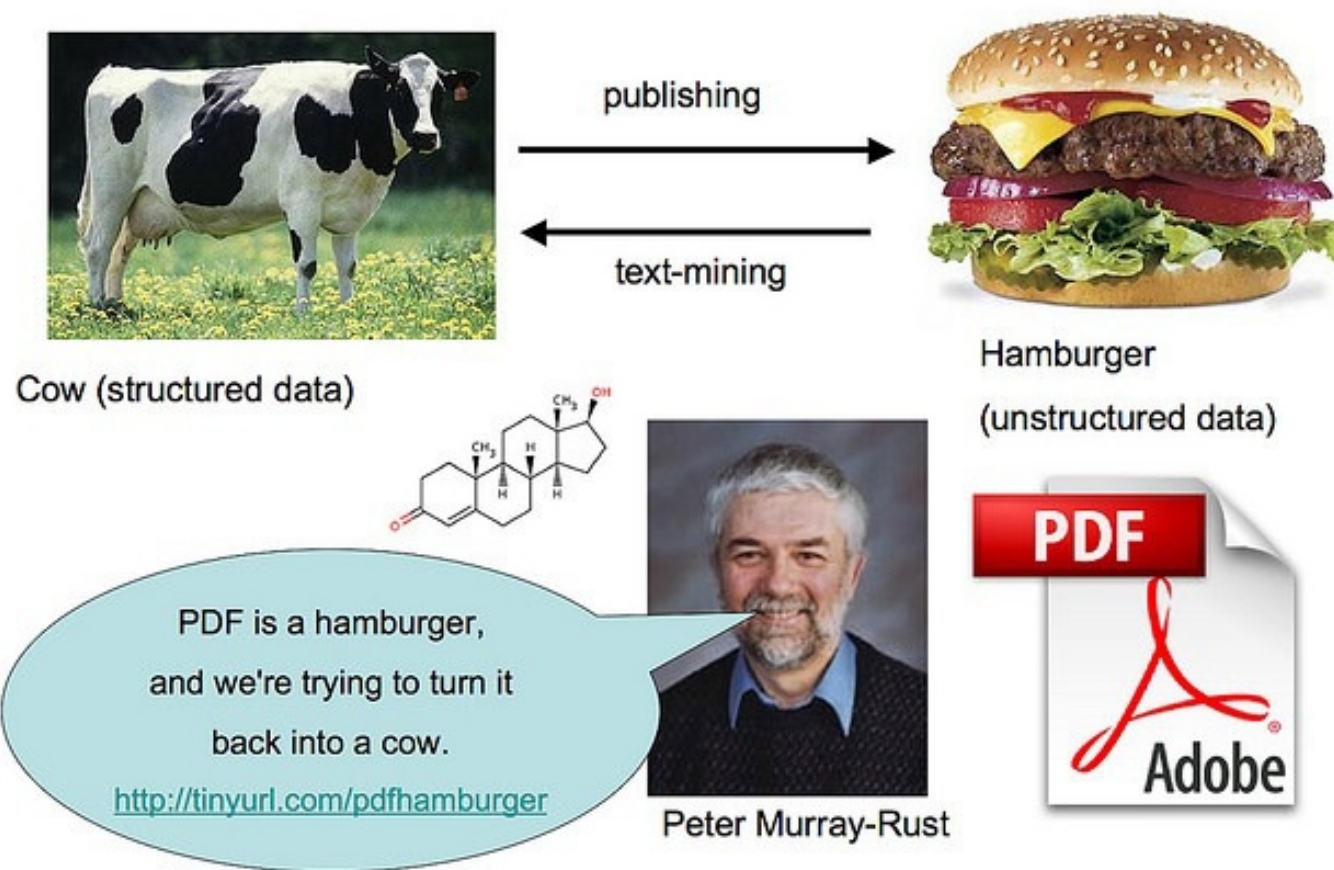
A cow lying on its side

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http://en.wikipedia.org/wiki/Cow_tipping

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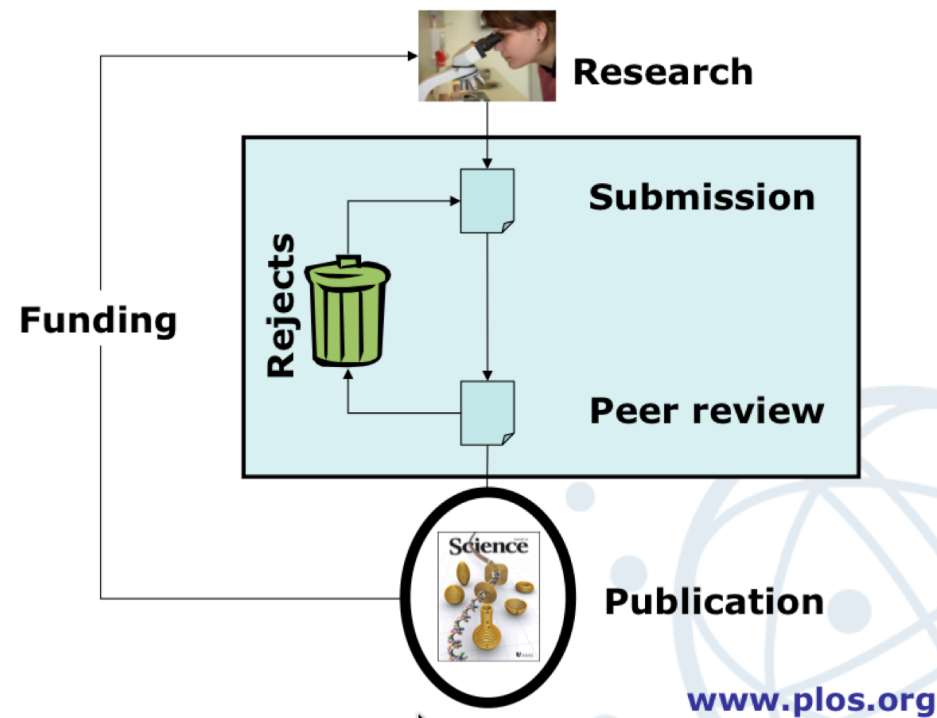


Peter Murray-Rust (2008) **PDF is a hamburger, and we're trying to turn it back into a cow** <http://tinyurl.com/pdfhamburger>

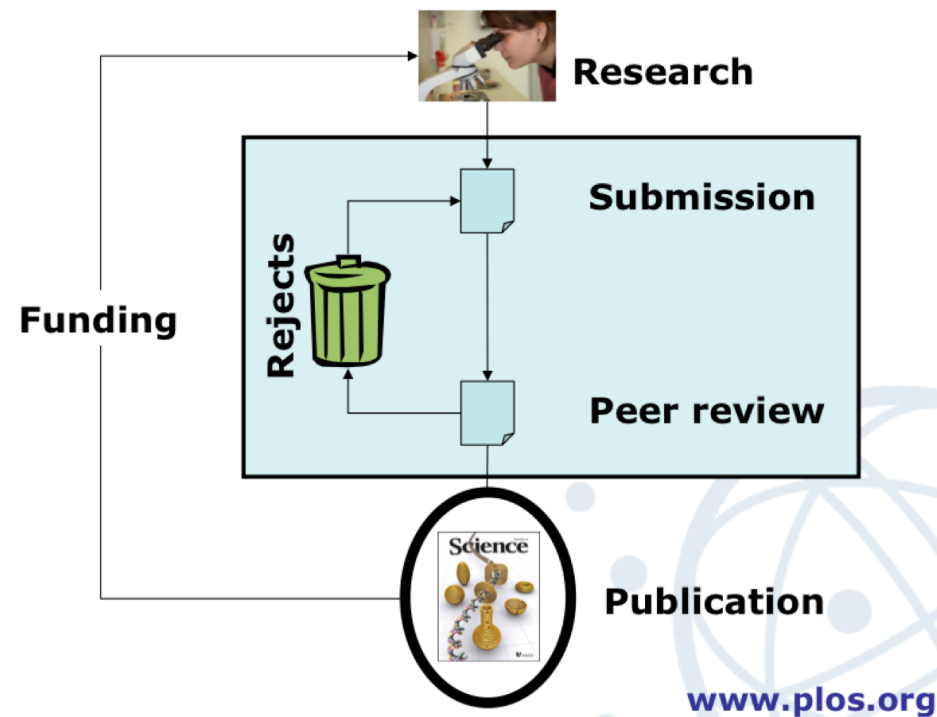
Tipping the Sacred Cow

Overthrowing the Journal System

Research communication (print)



Research communication (online)



Forces and functions in scientific communication: an analysis of their interplay

Hans E. Roosendaal ¹⁾ and Peter A. Th. M. Geurts ²⁾

Dans la vie, il n'y a pas de solutions.

Il y a des forces en marche: il faut les créer et les solutions suivent. *

(Vol de nuit, Antoine de Saint-Exupéry, Ch. 19)

- **Registration**, which allows claims of precedence for a scholarly finding.
- **Certification**, which establishes the validity of a registered scholarly claim.
- **Awareness**, which allows actors in the scholarly system to remain aware of new claims and findings.
- **Archiving**, which preserves the scholarly record over time.
- **Rewarding**, which rewards actors for their performance in the communication system based on metrics derived from that system.

Registration

- We're still adding to the scholarly record by publishing papers (a lot of them!) that find their way in the journal system.
- But the scholarly record is expanding in many dimensions:
 - Integration of datasets, workflows, software, etc. into the scholarly record;
 - Augmentation of the scholarly record with a machine actionable substrate.

The Paper Deluge

- Too many scholarly publications to consume
- Too hard to make cross-discipline connections, to combine existing disparate findings to arrive at new insights

Palmer et. al. (2007) **Weak information work in scientific discovery** *Inf. Process. Manage.* 43(3) 808–820
<http://dx.doi.org/10.1016/j.ipm.2006.06.003>

Ruttenberg et. al. **Advancing translational research with the Semantic Web** *BMC Bioinf.* 8(suppl. 3) S2
<http://dx.doi.org/10.1186/1471-2105-8-S3-S2>

Literature Mining

The significance of the interaction between DAZAP1 and DAZL/DAZ remains to be defined. These proteins may act together to facilitate the expression of a set of genes in germ cells. For example, DAZAP1 could be involved in the transport of the mRNAs of the target genes of DAZL. Alternatively, DAZL and DAZAP1 may act antagonistically to regulate the timing and the level of expression. Such an antagonistic interaction between two interacting RNA-binding proteins is exemplified by the neuron-specific nuclear RNA-binding protein, Nova-1. Nova-1 regulates the alternative splicing of the pre-mRNAs encoding neuronal inhibitory glycine receptor $\alpha 2$ (GlyR $\alpha 2$) [23]. The ability of Nova-1 to activate exon selection in neurons is antagonized by a second RNA-binding protein, brPTB (brain-enriched polypyrimidine tract-binding protein), which interacts with Nova-1 and inhibits its function [24]. DAZAP1 could function in a similar manner by binding to DAZL and inhibiting its function. Comparing the phenotypes of Dazl1 and Dazap1 single and double knock-out mice may provide some clues to the significance of their interaction. Dazl1 knock-out mice have already been generated and studied [6]. The spermatogenic defect in the male becomes apparent only after day 7 post partum when the germ cells are committing to meiosis (H. Cooke, personal communication). The genomic structure of Dazap1, delineated here, should facilitate the generating of Dazap1 null mutation.

Entity Identifiers & Ontologies




The Open Biological and Biomedical Ontologies







[Ontologies](#)[Resources](#)[Participate](#)[About](#)

The OBO Foundry is a collaborative experiment involving developers of science-based ontologies who are establishing a set of principles for ontology development with the goal of creating a suite of orthogonal interoperable reference ontologies in the biomedical domain. The groups developing ontologies who have expressed an interest in this goal are listed below, followed by other relevant efforts in this domain.

In addition to a listing of OBO ontologies, this site also provides a statement of the OBO Foundry principles, discussion fora, technical infrastructure, and other services to facilitate ontology development. We welcome feedback and encourage participation.

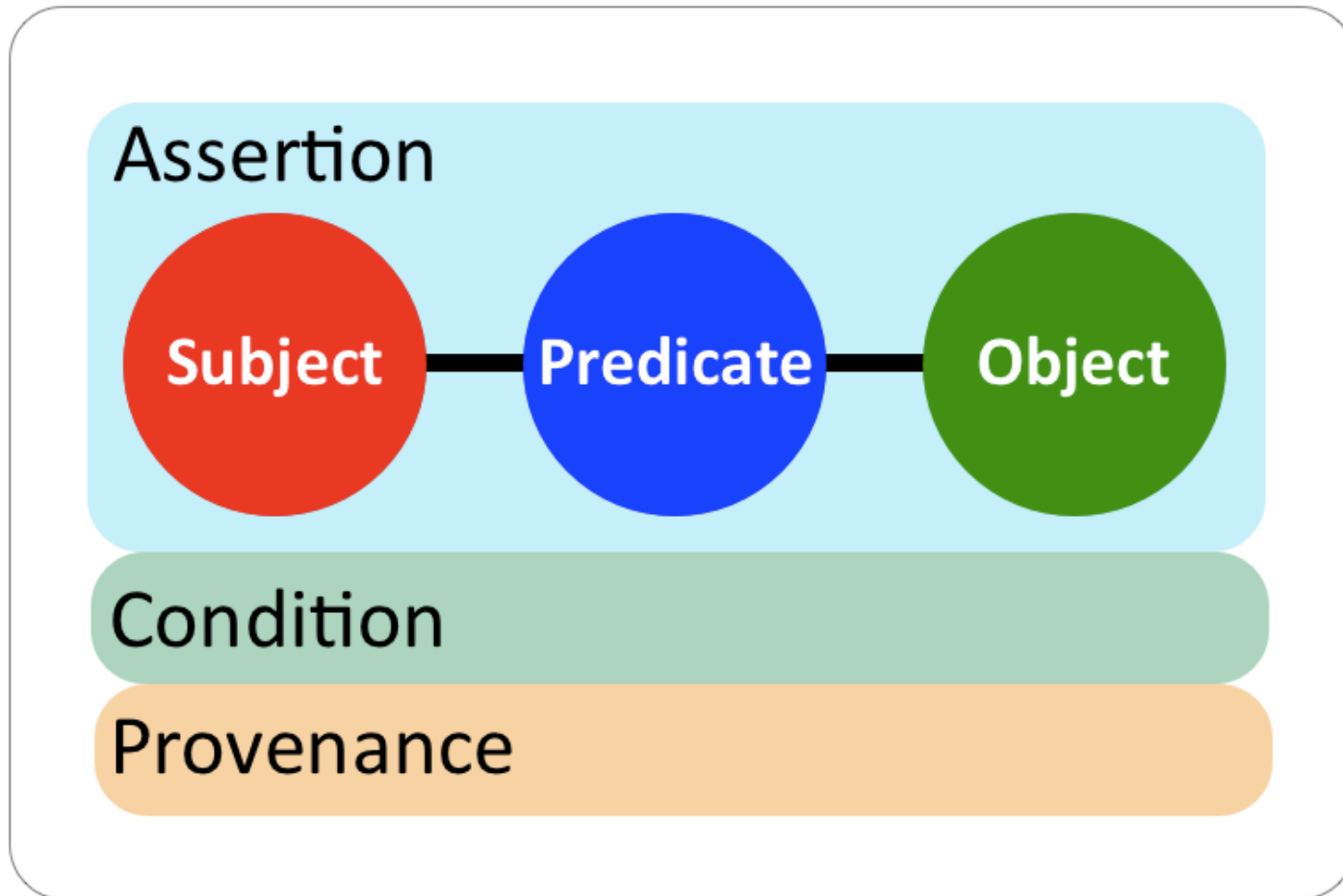
Click any column header to sort the table by that column. The  link to the term request trackers for the listed ontologies.

OBO Foundry ontologies

<u>Title</u>	<u>Domain</u>	<u>Prefix</u>	<u>File</u>	<u>Last changed</u>
Biological process	biological process	GO	gene_ontology_edit.obo 	2011/06/25
Cellular component	anatomy	GO	gene_ontology_edit.obo 	2011/06/25
Chemical entities of biological interest	biochemistry	CHEBI	chebi.obo 	2011/06/07
Molecular function	biological function	GO	gene_ontology_edit.obo 	2011/06/25
Phenotypic quality	phenotype	PATO	quality.obo 	
PRotein Ontology (PRO)	proteins	PR	pro.obo 	
Xenopus anatomy and development	anatomy	XAO	xenopus_anatomy.obo	2009/12/02

<http://www.obofoundry.org/>

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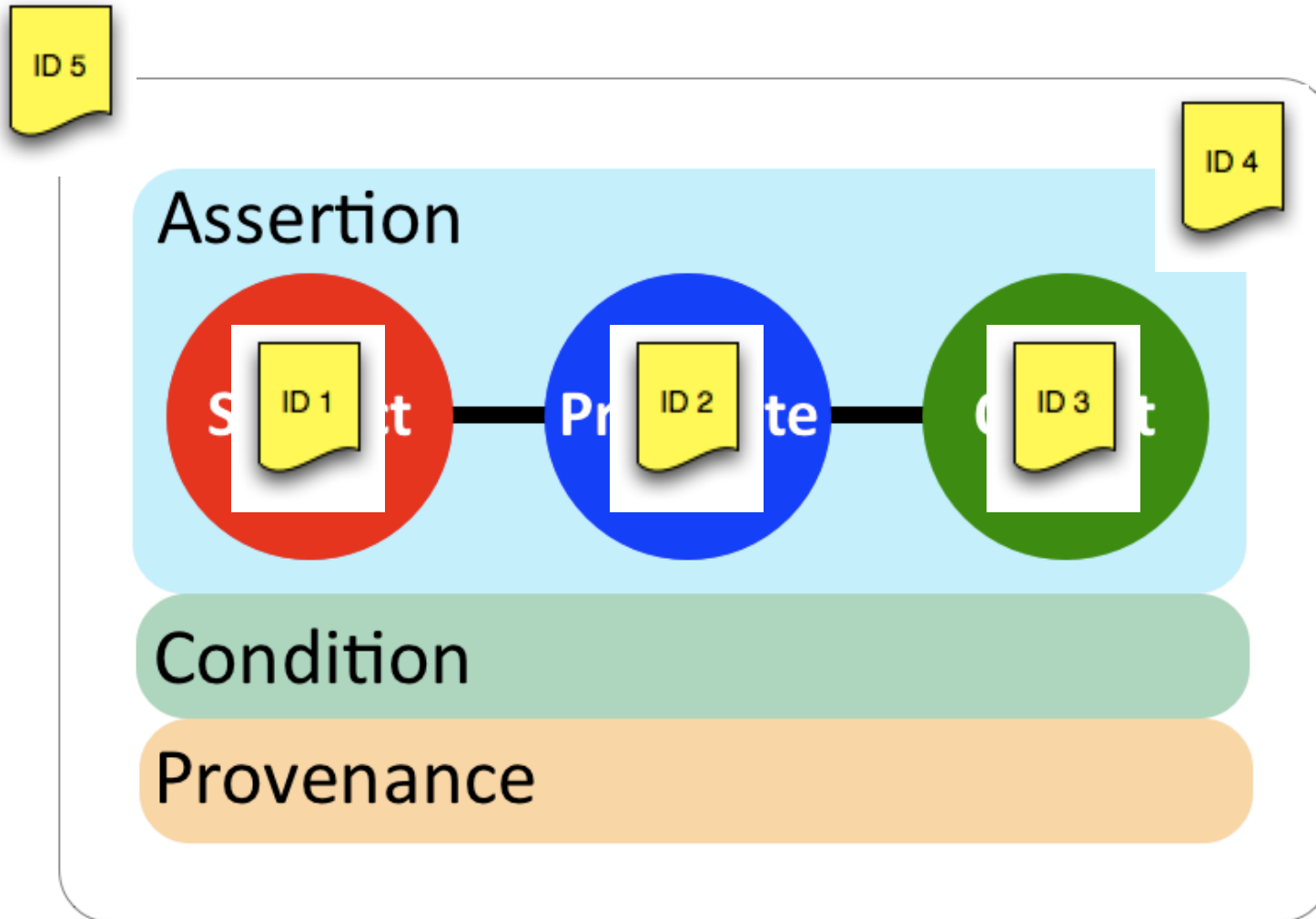
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Sardinian

Provenance

Giardine et al

Nanopublication



A Fix for the Nerds

```
@prefix swan: <http://swan.mindinformatics.org/ontologies/1.2/pav.owl>
@prefix cw:   <http://conceptwiki.org/index.php/Concept>.
@prefix swp:  <http://www.w3.org/2004/03/trix/swp-1/>.
@prefix :    <http://www.example.org/thisDocument#> .

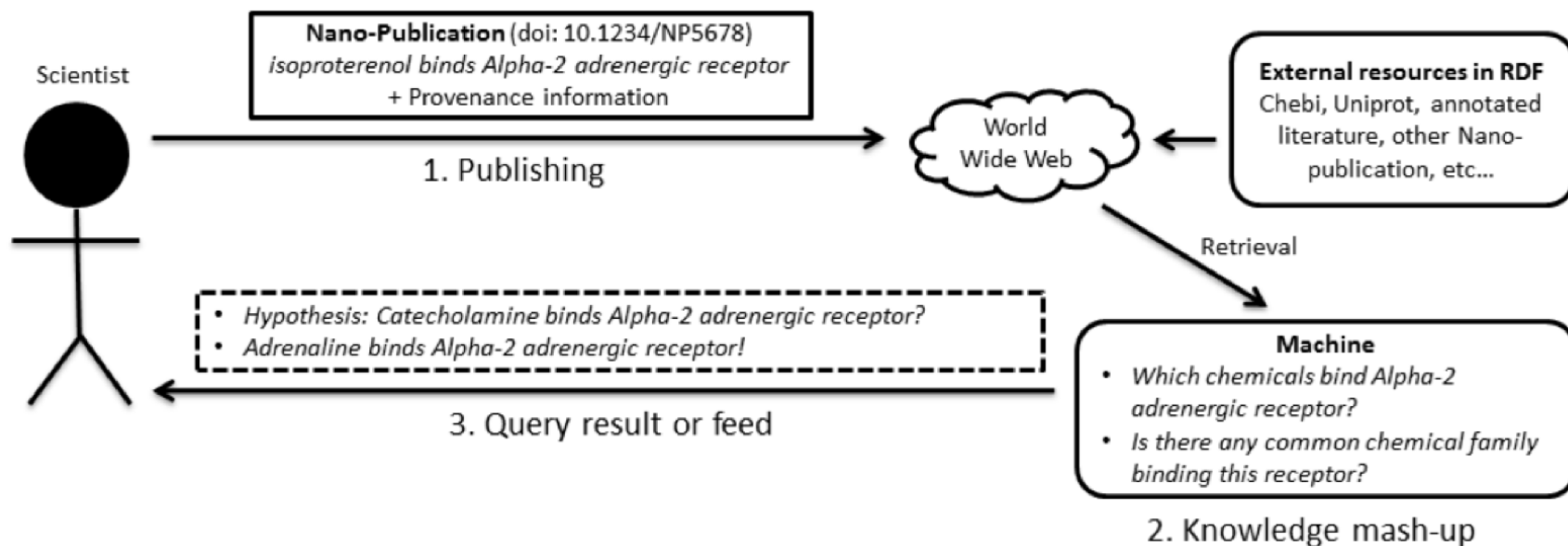
:G1  = { cw:malaria cw:isTransmittedBy cw:mosquitoes }

:G2  = { :G1 swan:importedBy cw:TextExtractor,
          :G1 swan:createdOn "2009-09-03"^^xsd:date,
          :G1 swan:authoredBy cw:BobSmith }

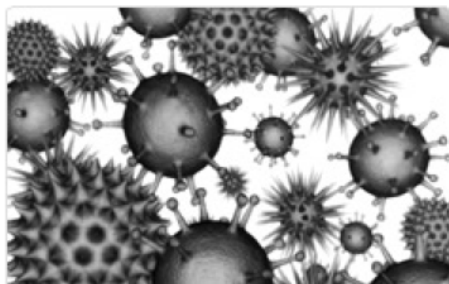
:G3  = { :G2 ann:assertedBy cw:SomeOrganization }

:G9  = { :G1 ann:isApprovedBy cw:JohnSmith }
:G10 = { :G9 ann:isAssertedBy cw:ApprovalTrackingSystem }
```

Publish, Merge, Search, Reason, Predict, Integrate



Clare et. al. Exploring the Generation and Integration of Publishable Scientific Facts Using the Concept of Nano-publications *ESWC 2011* <https://svn.kwarc.info/repos/clange/conferences/eswc2011/sepublica/proceedings/999990013/999990013.pdf>



News

15.06.2011

Antony Williams: Integrating and curating internet based chemistry resources to serve life scientists. PharmSciFair, June 2011

27.05.2011

Open PHACTS Press Release: Semantic 'lego': an information framework to drive drug discovery

30.05.2011

IMI Newsletter May 2011

30.05.2011

The Large Knowledge Collider Release V2.5: The platform used by Open PHACTS releases a major new version.

Open PHACTS

Open PHACTS (Open Pharmacological Concepts Triple Store) is a knowledge management project of the [Innovative Medicines Initiative](#) (IMI), a unique partnership between the European Community and the European Federation of Pharmaceutical Industries and Associations ([EFPIA](#)).

The Open PHACTS consortium will create an open innovative platform, Open Pharmacological Space, which will be freely accessible for knowledge discovery and verification. It will also serve other IMI projects, the broader pharmaceutical industry, and other public drug discovery efforts.

Open PHACTS will provide a growing body of data on small molecules, their pharmacological profiles, pharmacokinetics, ADMET data, biological targets and pathways in a semantically interoperable format. Aligning and integrating proprietary and public data sources into a single system is currently a very difficult and time consuming task, repeated across companies, institutes and academic laboratories.

Services

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Mons (2011) **Nanopublications** OA/7 Workshop presentation <http://indico.cern.ch/contributionDisplay.py?sessionId=13&contribId=38&confId=103325>

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A research study into Practices, Policies, Plans.....and Promises.

Commissioned by the Publishing Research Consortium

Smit & van der Graaf (2011) **Journal Article Mining** <http://www.publishingresearch.net/documents/PRCSmitJAMreport20June2011VersionofRecord.pdf>

Certification

- Certification in the journal system is implemented via the peer-review process.
- Registration and Certification are coupled in the journal system.

it is NOT junk

a blog about genomes, DNA, evolution, open science, baseball and other important things

Peer review is f***ed up – let's fix it

By Michael Eisen | October 28, 2011

Peer review is ostensibly one of the central pillars of modern science. A paper is not taken seriously by other scientists unless it is published in a “peer reviewed” journal. Jobs, grants and tenure are parceled out, in no small part, on the basis of lists of “peer reviewed” papers. The public has been trained to accept as established truth any science that has gone through the gauntlet of “peer review”. And any attempt to upend, reform or even tinker with it is regarded as an apostasy.

But the truth is that peer review as practiced in the 21st century biomedical research poisons science. It is conservative, cumbersome, capricious and intrusive. It slows down the communication of new ideas and discoveries, while failing to accomplish most of what it purports to do. And, worst of all, the mythical veneer of peer review has created the perception that a handful of journals stand as gatekeepers of success in science, ceding undue power to them, and thereby stifling innovation in scientific communication.

[Subscribe](#)  

Michael Eisen



I'm an evolutionary biologist at UC Berkeley and an Investigator of the Howard Hughes

Medical Institute. My research focuses on the evolution and population genomics of gene regulation in flies, and on the ways that microbes control animal behavior. I am a strong proponent of open science, and a co-founder of the [Public Library of Science](#). And most importantly, I am a Red Sox fan.

<http://www.michaeleisen.org/blog/?p=694>

Introduction

The proposed publishing model described in the latter half of this article has been developing in my mind for over five years. The beginnings of this model can be traced back to an idea for network-based scholarly publishing which I described at a meeting held at the Royal Society in 1993¹. I also described variations of this early model to other meetings in the UK² and India³. This article itself is an extended and updated version of a short paper given at the ICC/IFIP Conference on Electronic Publishing in 1997, Smith

The deconstructed journal – a new model for academic publishing

John W T Smith,
*The Templeman Library,
University of Kent at Canterbury.*

- decouple registration and certification:
 - create free information layer of non-certified information
 - promote - commercial - overlay services, amongst others addressing certification
- free layer via institutional involvement through libraries; libraries can add value to the digital information chain by
 - repositioning in the information chain,
 - becoming archivers of non-certified information authored by institutional authors

Rethinking Scholarly Communication

Building the System that Scholars Deserve

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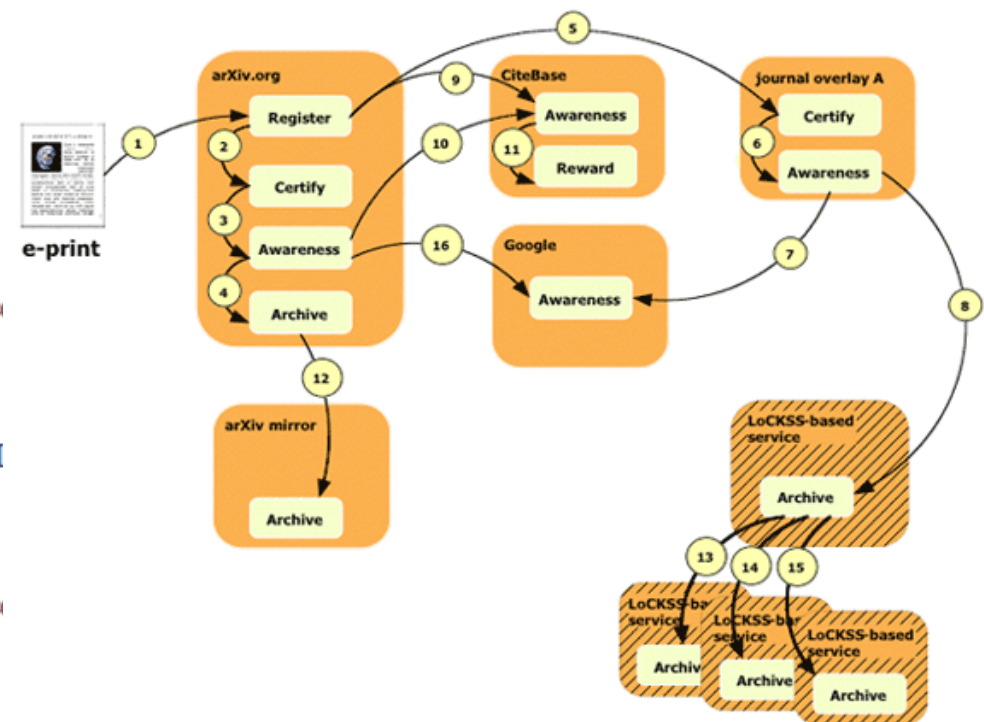
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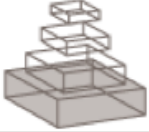
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Decoupling the scholarly journal

Jason Priem^{1*} and Bradley H. Hemminger¹

¹ School of Information and Library Science, University of North Carolina at Chapel Hill, USA

Although many observers have advocated the reform of the scholarly publishing system, improvements to functions like peer review have been adopted sluggishly. We argue that this is due to the tight coupling of the journal system: the system's essential functions of archiving, registration, dissemination, and certification are bundled together and siloed into tens of thousands of individual journals. This tight coupling makes it difficult to change any one aspect of the system, choking out innovation. We suggest

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Jason Priem & Bradley Hemminger (2011) Decoupling the scholarly journal http://www.frontiersin.org/computational_neuroscience/abstract/14455

✓ Opening up the peer review process

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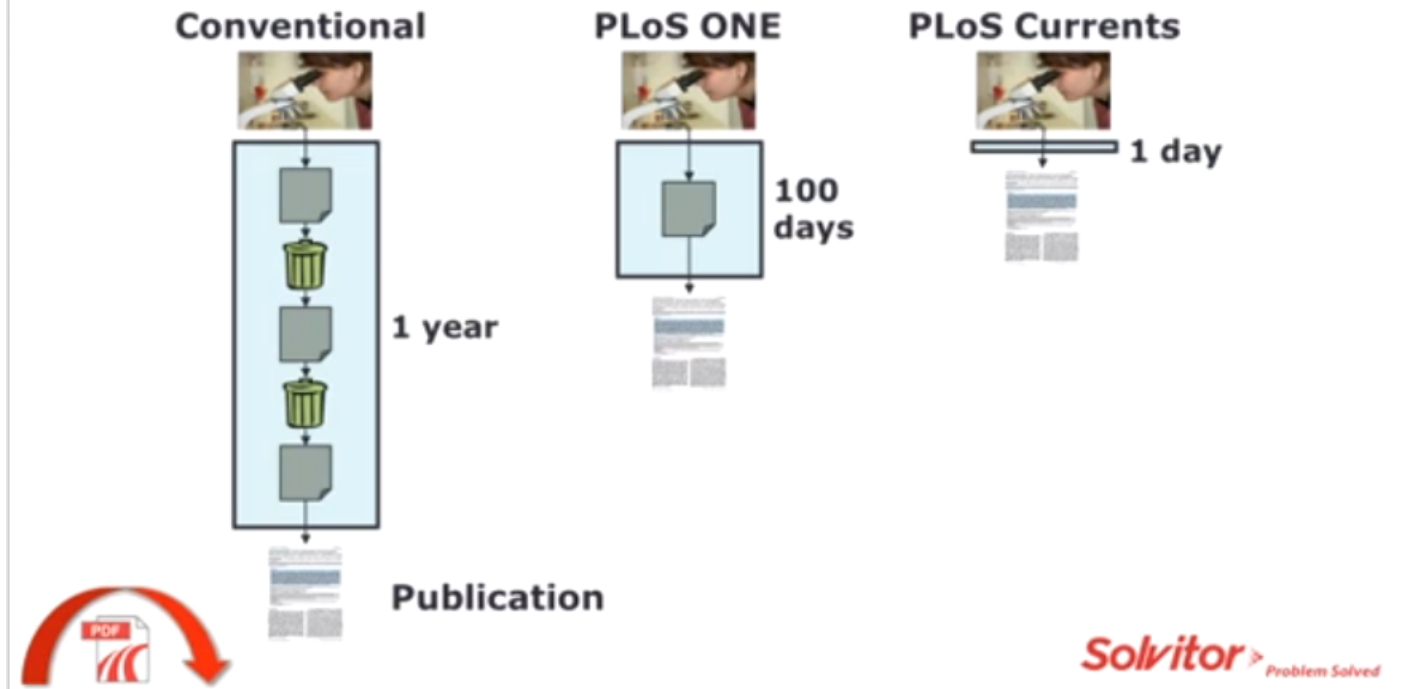
Open Access



http://de.wikipedia.org/wiki/Datei:Open_Access_logo_PLoS.svg

Speed

New models of scholarly communication



Excerpt from <http://youtu.be/isVrAKcx5TM>

About

Introduction and Background

Despite significant advances in most forms of publishing, from blogs to news sites and other user-generated web content, the process of authoring scholarly articles remains an expensive, time-consuming process that can require significant up-front investment and technical expertise. While a number of electronic publishing and workflow management systems exist, those intended for the scientific publishing (SP) community provide at best only rudimentary authoring tools – and in many cases simply provide a repository for document files created in other formats. It is as if the entire revolution in online, web-based content authoring tools has passed by the SP community. And despite the development of advanced document formats such as the National Library of Medicine's (NLM) [journal article publishing tag set](#), virtually no current system allows scientific authors to easily create structured XML documents using simple web-based tools.

- Simple editorial workflow for authoring and reviewer/editor approval
- Features specific to scholarly publishing:
 - Equations, figures, tables
 - References including citation search features
 - Auto-generation and registration of CrossRef DOIs

- Awareness significantly enhanced via Open Access, improved communication speed, novel discovery tools, etc.
- But:
 - Metadata still not generally open (the biggest failure of the Open Access movement?);
 - Exact right regime that applies to Open Access publications remains unclear in many cases (e.g. SOAP project results – Salvatore Mele).

Archiving

- Built substantial infrastructure to preserve journal system assets.



- But the scholarly record now extends far beyond the journal system ...

Rethinking Scholarly Communication

Building the System that Scholars Deserve

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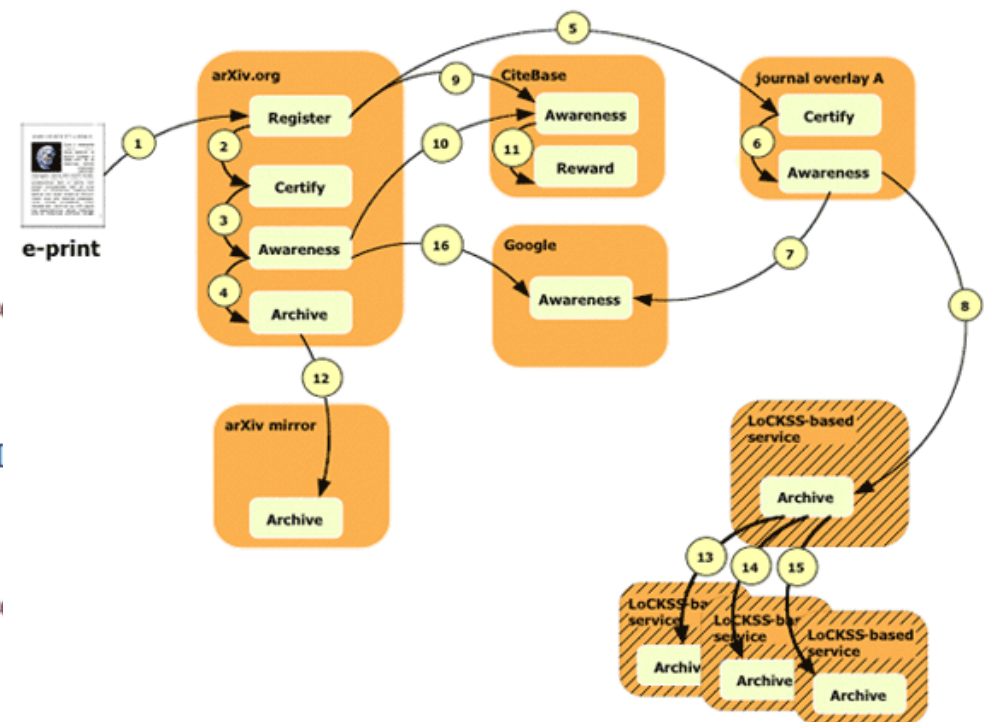
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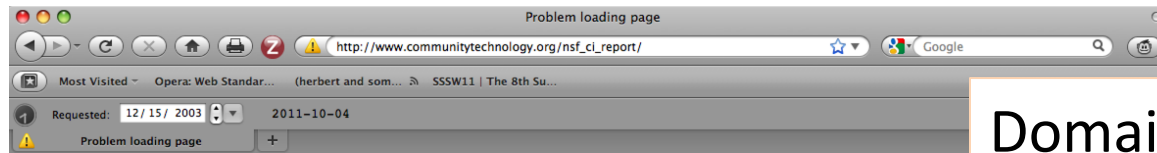
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Domain Gone

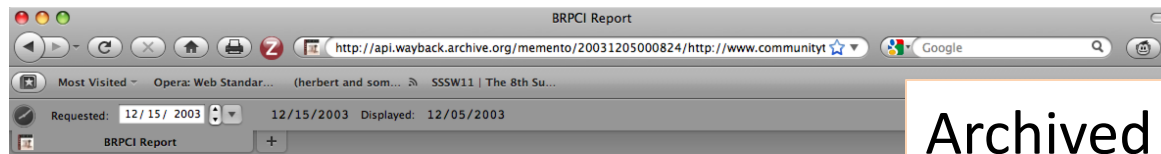


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Report of the National Science Foundation Blue-Ribbon Advisory Panel on Cyberinfrastructure

January 2003

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Abstract

We describe "digitometric" services and tools that add value to open-access eprint archives using the Open Archives Initiative (OAI) Protocol for Metadata Harvesting. Celestial is an OAI cache and gateway tool. Citebase Search enhances OAI-harvested metadata with linked references harvested from the full-text to provide a web service for citation navigation and research impact analysis. Digitometrics builds on data harvested using OAI to provide advanced visualisation and hypertext navigation for the research community. Together these services provide a modular, distributed architecture for building a "semantic web" for the research literature.

Item Type: Conference or Workshop Item

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- Simon Kampa
- Stevan Harnad
- Les Carr
- Steve Hitchcock

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Digitometric Services for Open Archives Environments

Brody, T., Kampa, S., Harnad, S., Carr, L. and Hitchcock, S. (2003) Digitometric Services for Open Archives Environments. In *Proceedings of European Conference on Digital Libraries 2003*, pages pp. 207-220, Trondheim, Norway.

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- **EPrint Type** Conference or Workshop Item
- **Keywords** open archives initiative scientometrics libraries literature
- **Research Group** [Intelligence, Agents, Multimedia](#)

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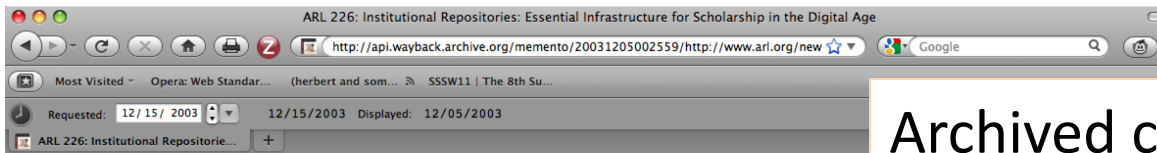
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ARL Bimonthly Report 226 **February 2003**

Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age

by Clifford A. Lynch, Executive Director, Coalition for Networked Information

Introduction

In the fall of 2002, something extraordinary occurred in the continuing networked information revolution, shifting the dynamic among individually driven innovation, institutional programs and the evolution of disciplinary scholarly practices. The development of institutional repositories emerged as a new strategy that allows universities to apply serious, systematic leverage to accelerate changes taking place in scholarship and scholarly communication, both moving beyond their historic relatively passive role of supporting established publishers in modernizing scholarly publishing through the licensing of digital content, and also scaling up beyond ad-hoc alliances, partnerships, and support arrangements with a few select faculty pioneers exploring more transformative new uses of the digital medium.

Many technology trends and development efforts came together to make this strategy possible. Online storage costs have dropped significantly; repositories are now affordable. Standards like the open archives metadata harvesting protocol are now in place; some progress has also been made on the standards for the underlying metadata itself. The thinking about digital preservation over the past five years has advanced to the point where the needs are widely recognized and well defined, the technical approaches at least superficially mapped out, and



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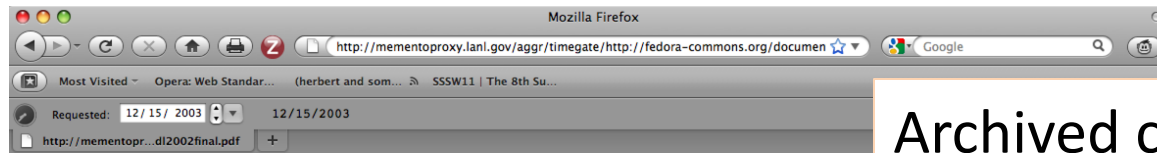
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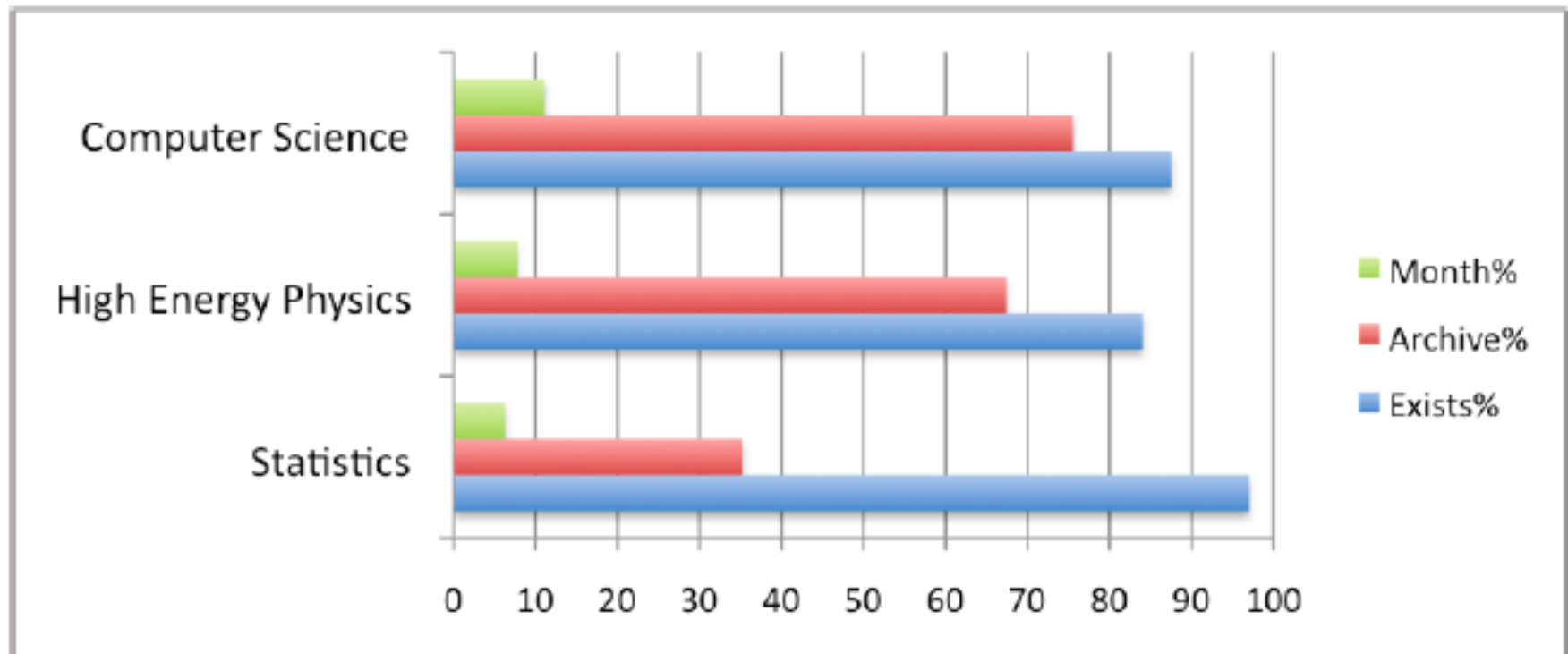
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Time Travel for the Scholarly Web
STM Innovations, London, UK, December 2 2011



Citation Rot - arXiv



Sanderson, R., Phillips, M., and Van de Sompel, H. (2011) Analyzing the Persistence of Referenced Web Resources with Memento. <http://arxiv.org/abs/1105.3459>

- Built substantial infrastructure to preserve journal system assets.



- But infrastructure to adequately archive Web-native scholarly assets is lacking.

Rewarding

Expanding Scholarly Record

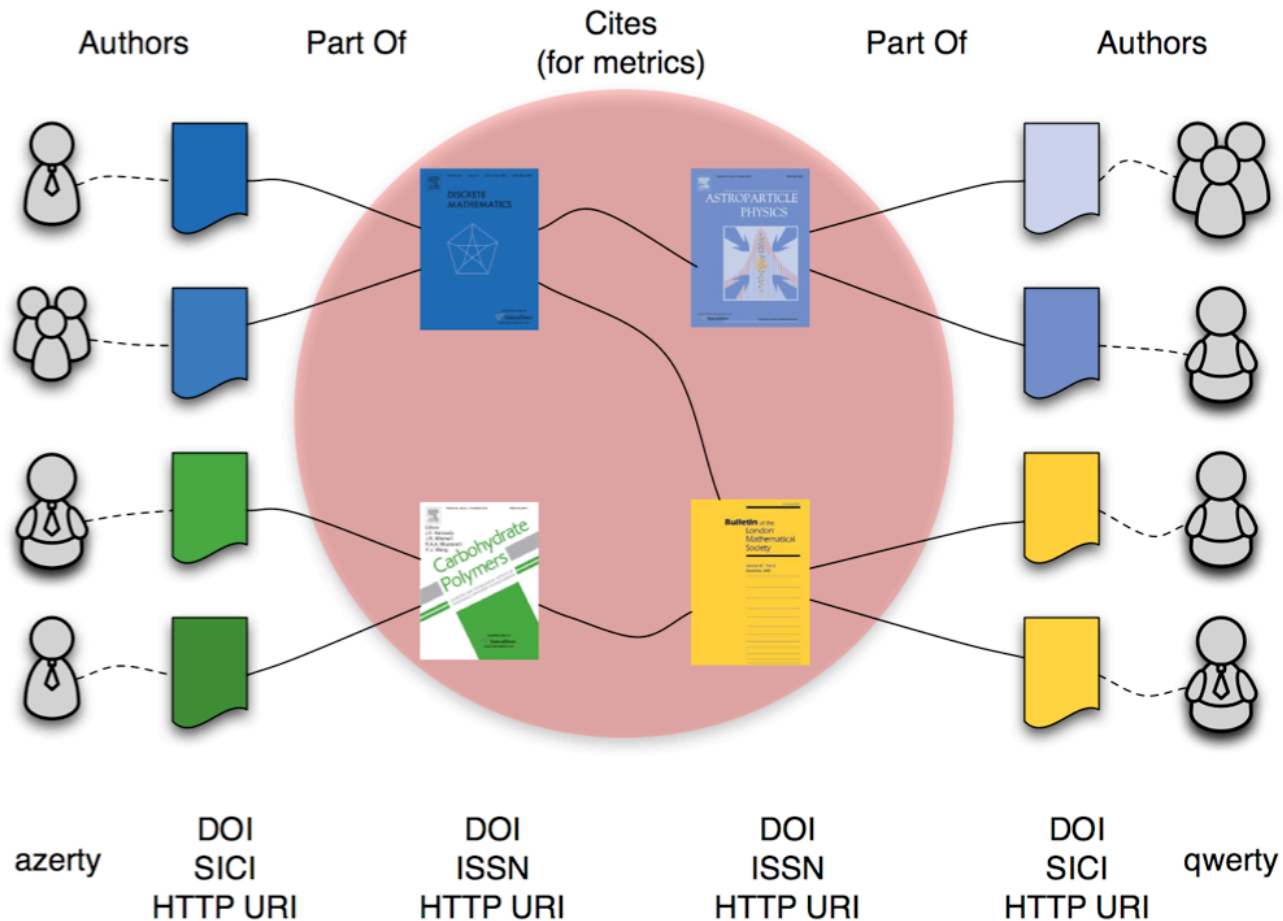
- Papers
- Datasets
- Nanopublications
- Workflows
- Software
- ...
- More assets to get credit for

Expanding Impact Metrics

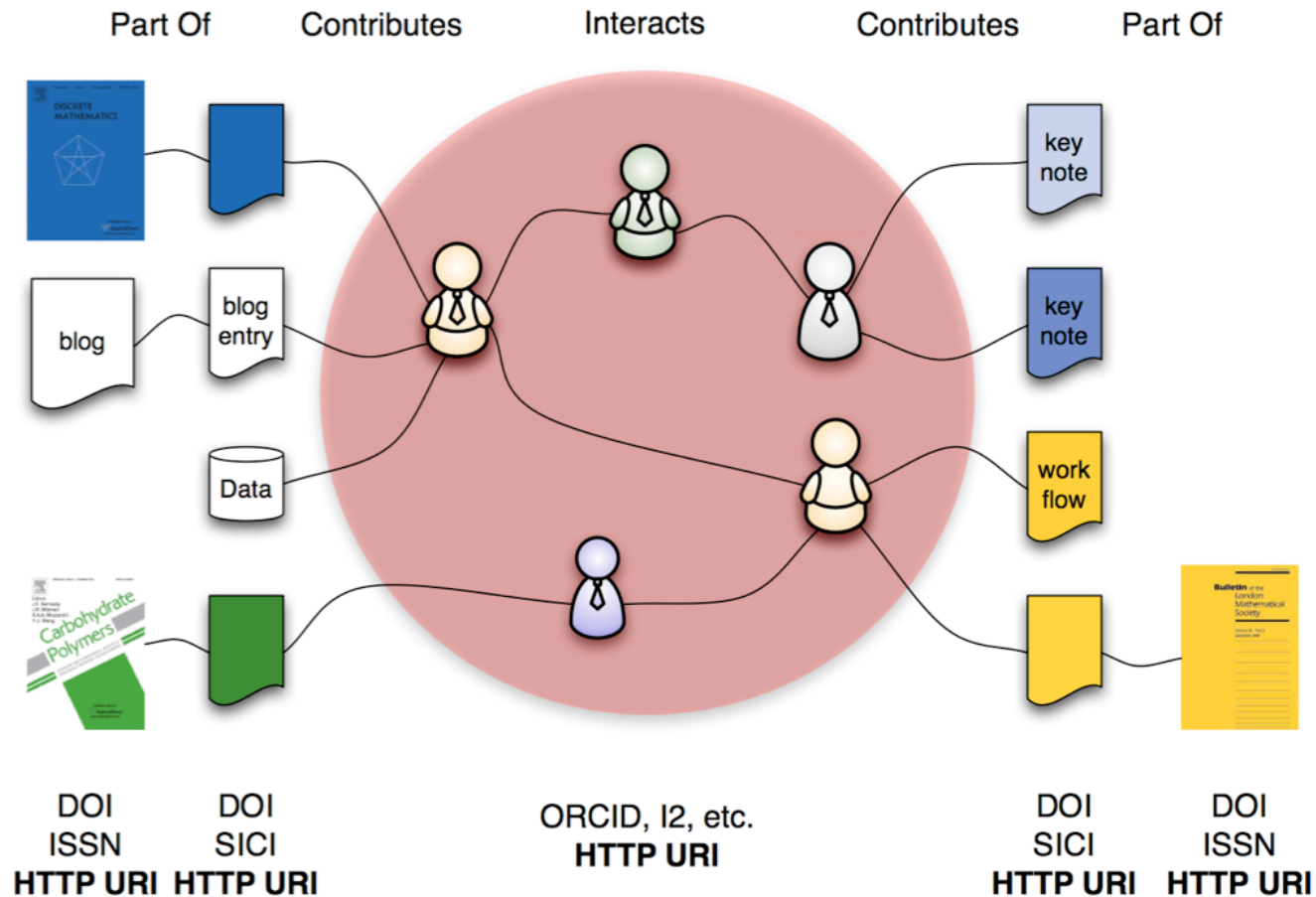


- Other ways to get credit

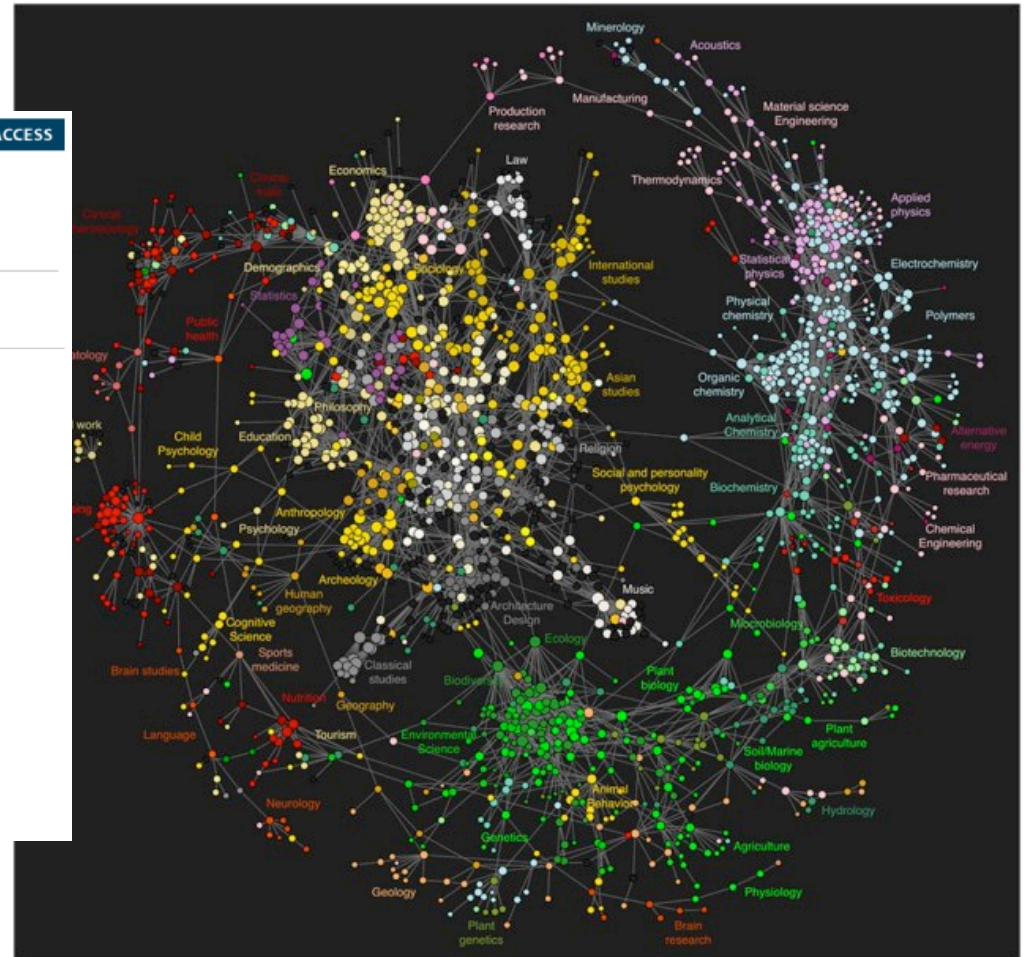
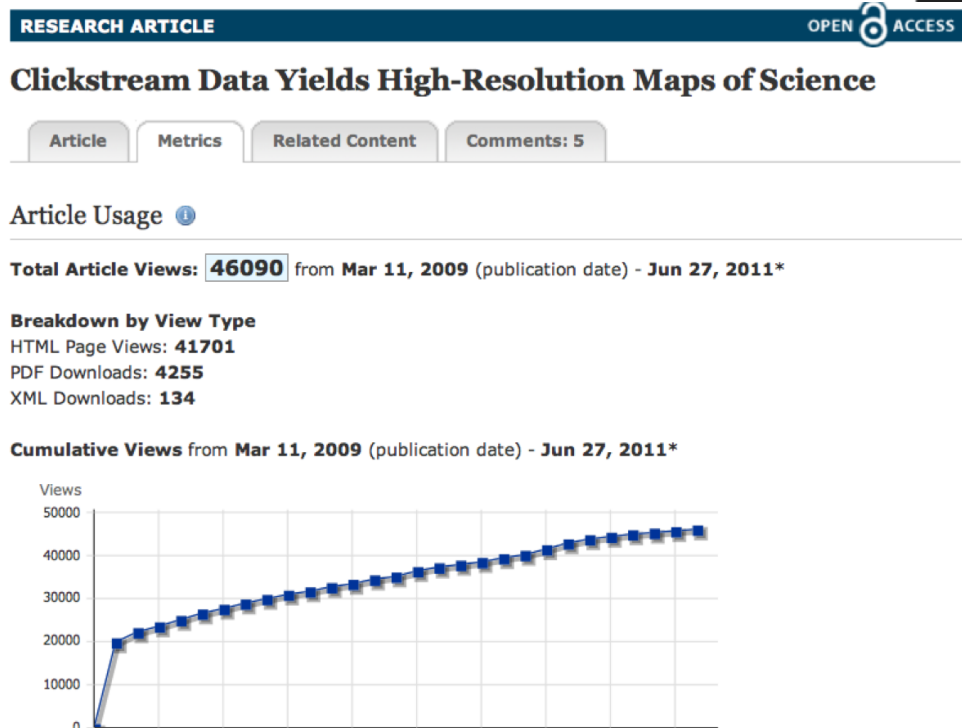
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Cow tipping

From Wikipedia, the free encyclopedia

Cow tipping or **cow pushing** is the purported activity of sneaking up on a sleeping, upright **cow** and pushing it over for fun. As cattle do not sleep standing up, cow tipping is a myth.^[1]



A cow lying on its side

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