Welcome to the SCOAP³ Webinar!

SCOAP³ Webinar & Forum

18 November 2014

Introduction

SCOAP³ Webinar & Forum

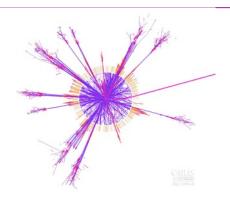
18 November 2014

The SCOAP³ Webinar & Forum

Introduction



- Continued trend towards OA
- Global collaboration across countries, publishers, libraries, research centers
- Inspired by culture of scientific collaboration



- Pre-print culture in HEP: mature community
- arXiv.org ubiquity (almost 100%)
- Incongruity of paying (journal) content, free on arXiv.org
- Peer-review journals crucial
- Global cooperation culture and infrastructure (CERN)



The SCOAP³ Webinar & Forum

18 November 2014

1 History, Business Model and Operations

2 Repository Services

3 A Forward Look

4 Questions & Answers

History, Business Model and Operations

SCOAP³ Webinar & Forum

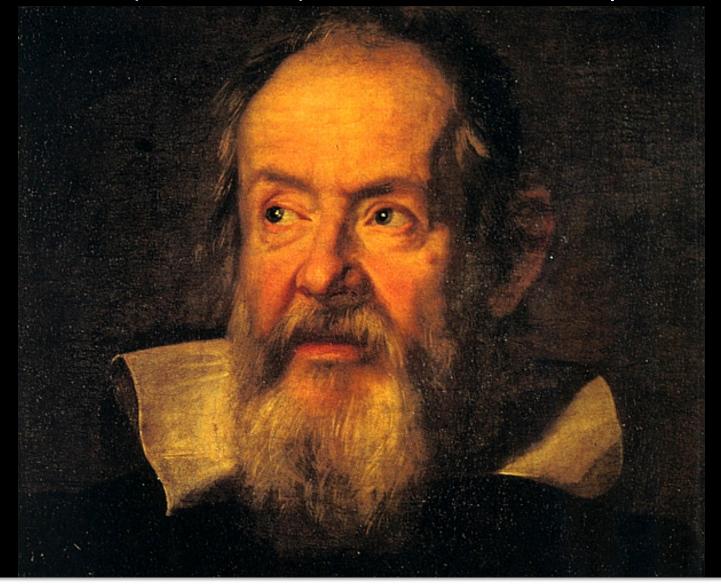
18 November 2014

History, Business Model and Operations

Agenda

- 1) Why SCOAP³?
- A Brief Look To The Past
- Tendering Process & APCs
- Partnership & Governance

Galileo Galilei (1564-1642), Italian, discovers Jupiter's Moons

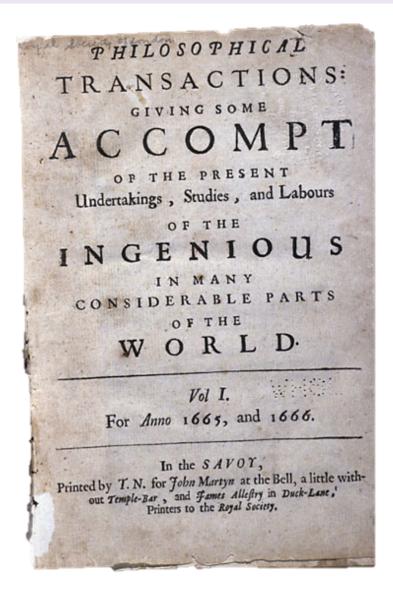


The Earth rotates around the Sun!

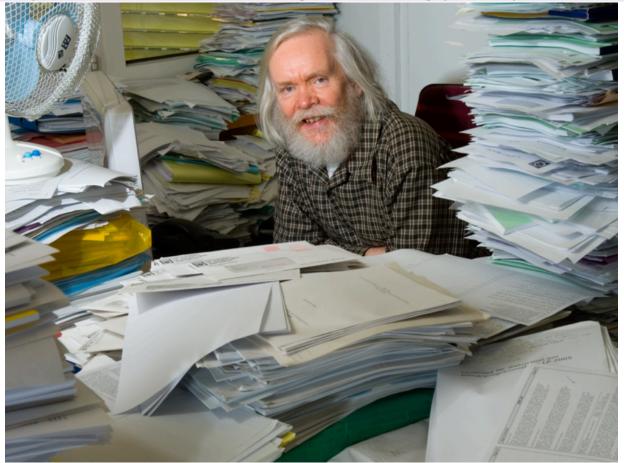
Published in the Netherlands



Scientific journals: dissemination and attribution



Scientific publication in High-Energy Physics



- High-Energy Physics ~7'500 papers/year
- 90% written by 1,2 or 3 authors
- Only 2% of overall publications from CERN

HEP Researchers mailed each-other preprints of articles

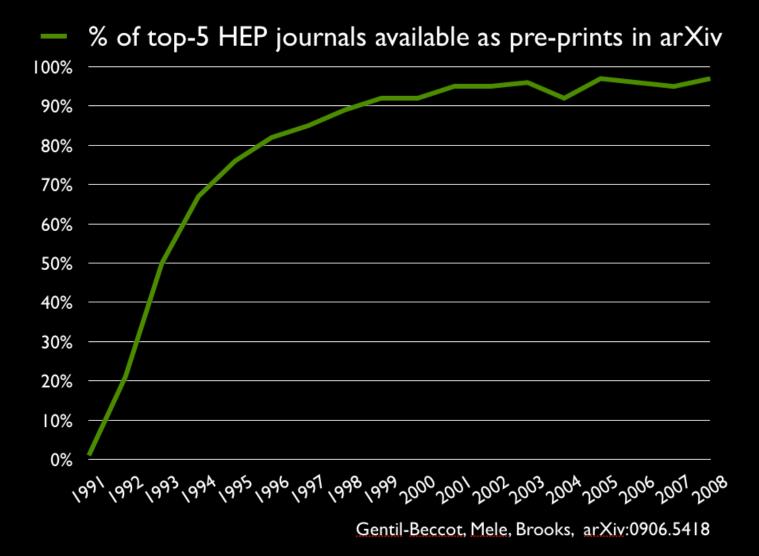
CERN paper-based Open Access preprint repository 1954-1997



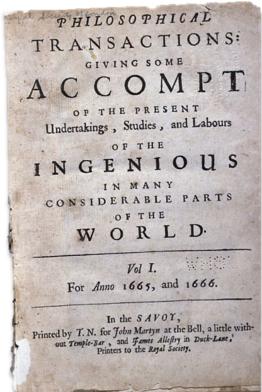
Pre-print on the internet: arXiv.org (circa 1991)



97% of HEP journals' content is in arXiv



Disintermediation of distribution and "publication" (peer-review)







ARTICLE INFO

Article history: Received 31 July 2012 Received in revised form 8 August 2012 Accepted 11 August 2012 Available online 14 August 2012 Editor: W-D. Schlutzer ABSTRACT

A search for the cauditable Model (figgs) soles in proton-proton collisions with the ATLAS detector of k = 30.0 (i.e. k = 30.0) and k = 30.0 (ii.e. k = 30.0) and k = 30.0 (iii.e. k = 30.0) and k = 30.0

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1. Introduction

The Standard Model (SM) of particle physics [1-4] has been seed by same operapriments over the less from decides and has been shown to successfully describe high energy particle interactions. However, the mechanism that breaks electrowed specimentally in the Markov of the SM has not been seed that experimentally this mechanism that the second seed of th

Hadron Collider [11] (LHC) physics programme. Indirect limits on the SM Higgs boson mass of $m_0 < 158$ GeV at 5% confidence level (C.1) have been set uning global first to presion electroweak results 112). Here searches at LEP [13], the Tevatron [14–16] and the LHC [17,18] have previously excluded, at SSR CL a SM Higgs boson with mass below 600 GeV, apart from some mass regions between 116 GeV and 127 GeV. Both the ATLAS and CMS Collidocations reported excesses of

Both the ATIAS and CMS Collaborations reported excesses of events in their 2011 datasets of proton–proton (pp) collisions at centre-of-mass energy $\sqrt{s}=7$ TeV at the LHC, which were compatible with SM Higgs boson production and decay in the mass region 124–126 GeV, with significances of 2.9 and 3.1 standard deviations (σ), and σ are supercively [17,18]. The CDF and DØ experiments at the Tevation have also recently reported a broad excess in the mass region

120–135 GeV; using the existing LHC constraints, the observed local significances for m_H = 125 GeV are 2.7 σ for CDF [14], 1.1 σ for DØ [15] and 2.8 σ for their combination [16],

The previous ATLAS searches in 4.6–4.8 fb⁻¹ of data at \sqrt{s} = 7 TeV are combined here with new searches for $H \rightarrow ZZ^{(s)} \rightarrow 4\xi_s^1$. $H \rightarrow \gamma\gamma$ and $H \rightarrow WW^{(s)} \rightarrow e\nu\mu\nu$ in the 5.8–5.9 fb⁻¹ of pp collision data taken at \sqrt{s} = 8 TeV between April and June 2012.

monitors used a detect at $x_i = 0$ in the "exceeding principle" in the probability of t

is were re-dynamic with similarity and uncern secure sooning at the BTeV MVV^(*) — c/yr channed, the increased pile-up de-teriorates the event missing transverse momentum, [p^(*)₂, residents in significantly larger Devl-2¹/₂ and adequated in the same-flavour flaul states. Since the e_{xt} channel provides most of the sensitivity of the search, only this final state is used in the analysis of the 8 TeV data. The kinematic region in which a Milgas boson with a mass between 110 GeV at 140 GeV is

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1 The symbol ℓ stands for electron or muon

[©] CERN for the benefit of the ATLAS Collaboration.

Do High-Energy Physics researchers "read" journals?

9 HEP scientists in 10...



...use arXiv also when a journal version exists!

Gentil-Beccot, Mele, Brooks arXiv: 0906.5418

The Role of Journals Today



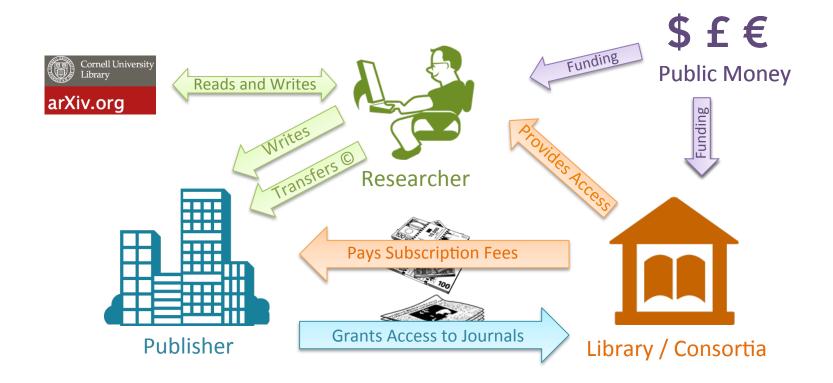
Quality assurance service & Interface with officialdom

Dissemination on arXiv.org, peer-review on journals



Peer-review and publishing services paid through purchase of content (mostly free on arXiv.org)

Subscription Model



SCOAP³ concept

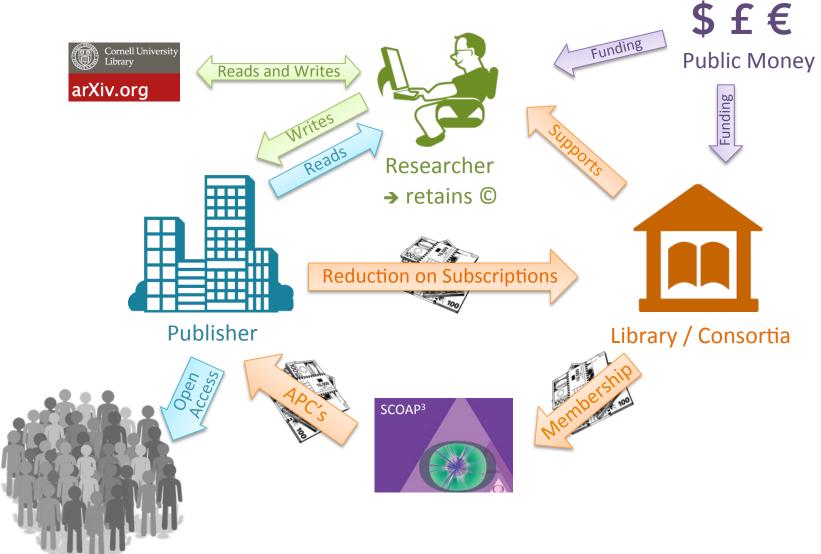
Dissemination on arXiv.org, peer-review on journals



Pay for peer-review and publishing services, content Open Access, no transfer of copyright ___

The SCOAP³ Business Model

Redirecting existing subscriptions to support Open Access



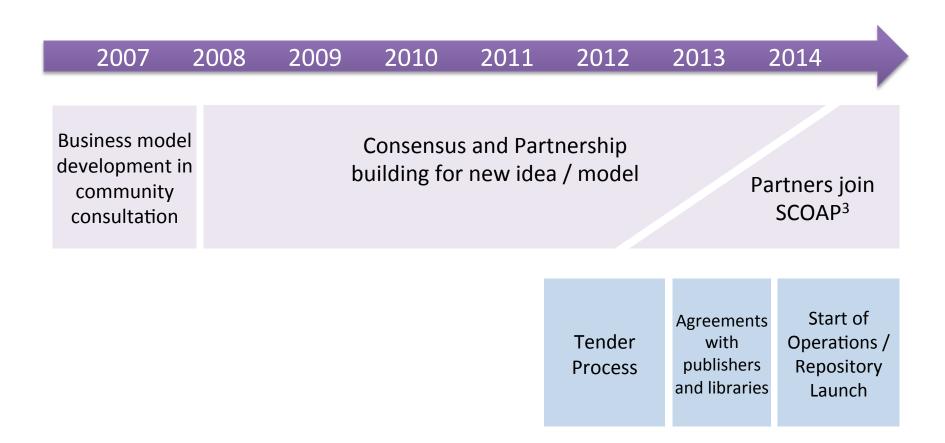
History, Business Model and Operations

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- Why SCOAP³?
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A Brief Look To The Past

The way to a successful launch in 2014



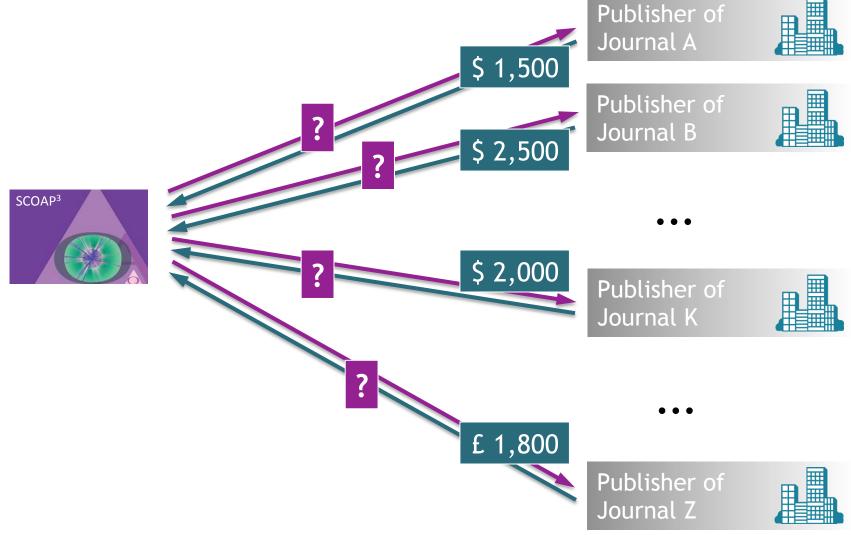
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The SCOAP³ Tender Process

Three steps to determine the "best value for money"



The SCOAP³ Tender Process (cont'd)

Three steps to determine the "best value for money"



The SCOAP³ Tender Process (cont'd)

Three steps to determine the "best value for money"

	Journal	Price	Volume	Contract	Expenditure	
w) price	Journal K	\$ 2,000	1,100	\$ 2.2mn	€ 1.8mn	
	Journal A	\$ 1,500	2,000	\$ 3.0mn	€ 4.2mn	
ol) b	Journal Z	£ 1,800	800	£ 1.4mn	€ 5.9mn	
ty an	Journal F	€ 4,000	300	€ 1.2mn	€ 7.1mn	
Ranked by (high) quality and (low) price	Journal L	€ 2,000	700	€ 1.4mn	€ 8.5mn	
	Journal R	€ 1,800	650	€ 1.2mn	€ 9.7mn	
	Journal Q	£ 3,000	90	£ 0.3mn	€ 10.0mn	
	Journal P	\$ 800	120	Contract • XX		
	Journal W	£ 5,000	100	APC's: € XX #arcticles: XX Format: PDF XML License: CC BY		
	• • •	• • •	• • •			
Fict	ive numbers for e	xplanation o	C.	26		

SCOAP³ Tender Results in alphabetical order

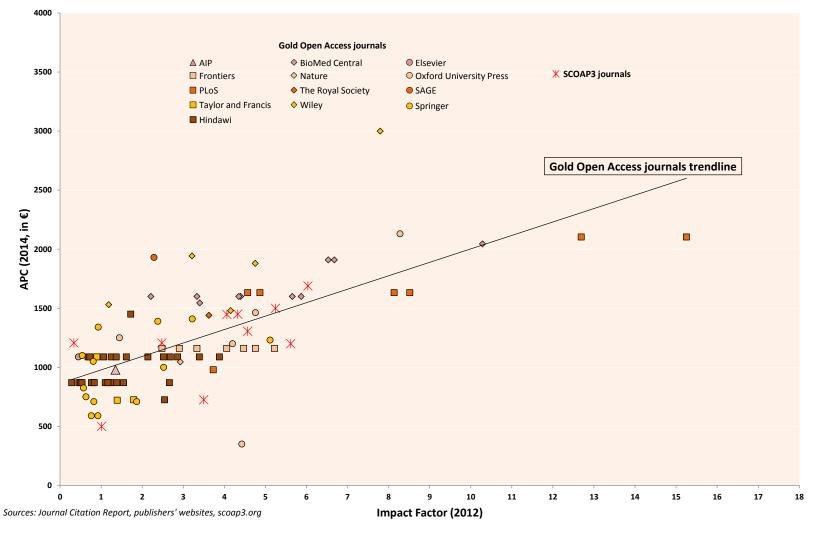
Publisher Publisher	Journal	SCOAP ³ share 2011	APC	SCOAP ³ articles 2011	# articles Nov 2014
APS	Physical Review D	ALL	\$1,900	2,989	
APS	Physical Review C	9.9%	\$1,900	107	
Elsevier	Nuclear Physics B	ALL	\$2,000	284	289
Elsevier	Physics Letters B	ALL	\$1,800	1,010	800
Hindawi	AHEP	ALL	\$1,000	28	183
IOPp/DPG	New Journal of Physics	2.7%	£1,200	20	5
IOPp/SISSA	JCAP	30.9%	£1,400	138	209
IOPp/CAS	Chinese Physics C	7.2%	£1,000	16	17
Jagellonian	Acta Physica Polonica B	22.1%	€ 500	32	10
Springer/SISSA	Journal of HEP	ALL	€ 1,200	1,652	1,747
Springer/SIF	European Physical J. C	ALL	€ 1,500	326	466
OUP/JPS	PTEP	36.2%	£ 1,000	46	52
		Average	€ 1,311	3,552	3,778

Journals not listed either did not participate or the quality/price did not fit the €10mn budget envelope. See more details under: http://scoap3.org/scoap3journals/journals-apc



APCs For Gold OA Correlate with Impact Factor

SCOAP³ APCs reflect quality-price correlation in the Gold OA market

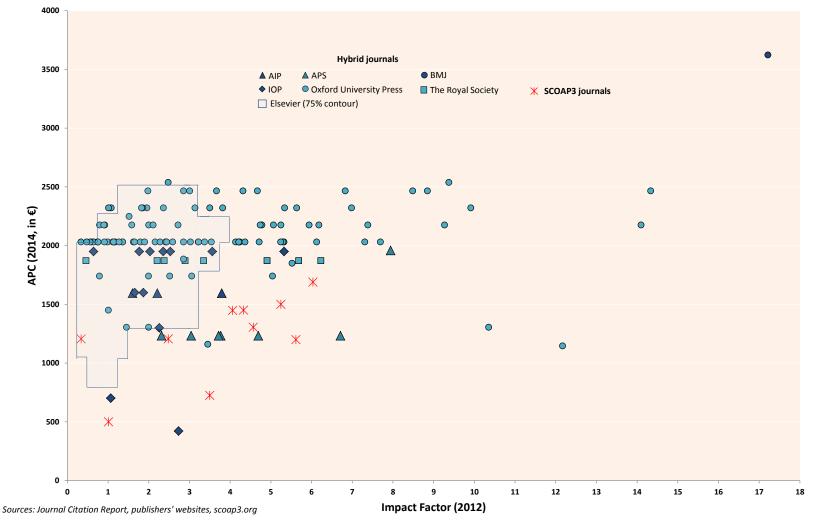


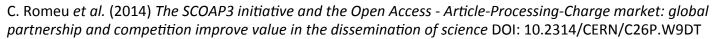
C. Romeu et al. (2014) The SCOAP3 initiative and the Open Access - Article-Processing-Charge market: global partnership and competition improve value in the dissemination of science DOI: 10.2314/CERN/C26P.W9DT



APCs For Hybrid Journals

SCOAP³ journals offer better "value for money"







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The SCOAP³ Business Model

Redirecting existing subscription money





- Price of package reduced according to SCOAP³ content
- Contracts adjusted for subscribers worldwide
- Refunds/credits for 2014







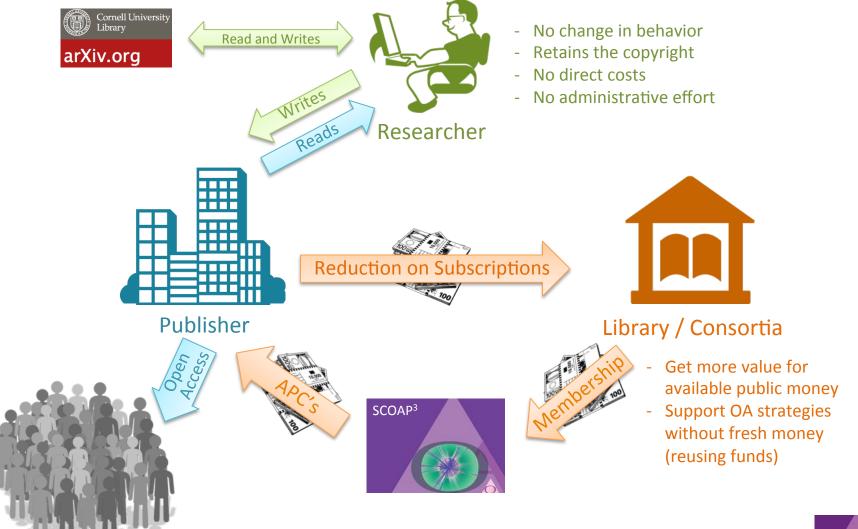
- Library / Consortia
- Get more value for available public money
- Support OA strategies without fresh money (reusing funds)





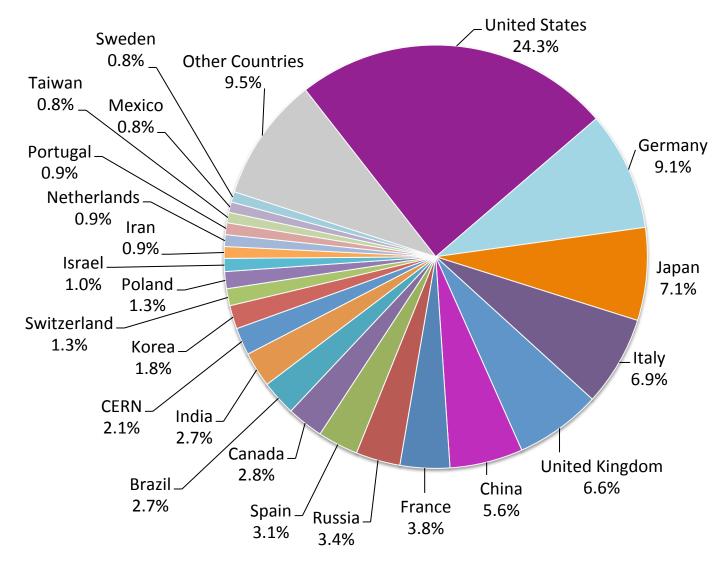
The SCOAP³ Business Model

Redirecting existing subscription money

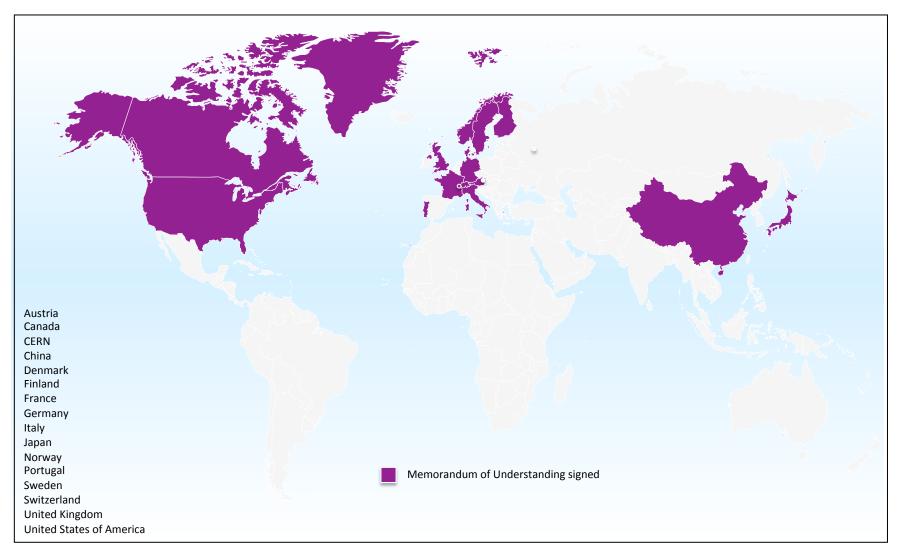


SCOAP³ budget: € 5,000,000/year

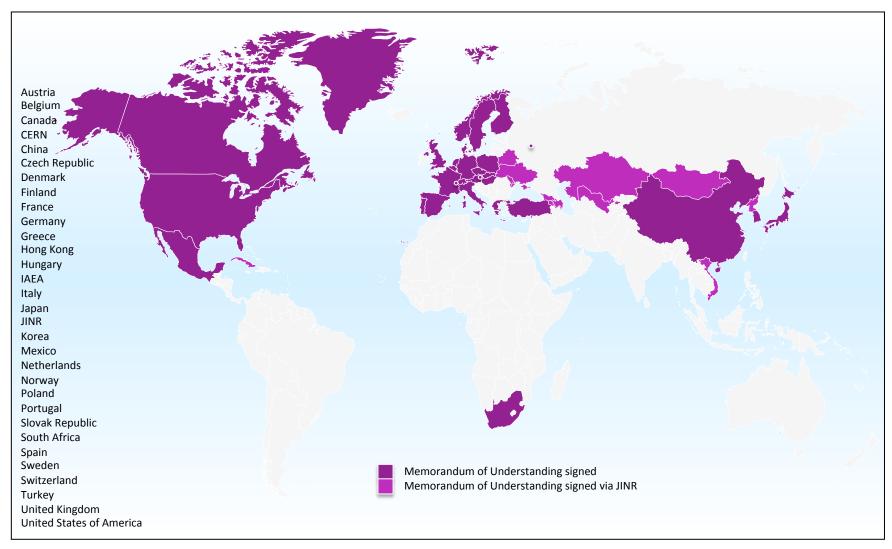
Partners contribute based on national share of HEP publications



SCOAP³ Partners by end 2013



SCOAP³ Partners as of November 2014



Governance Structure

Global participation for transparency and good governance



Governance Structure (cont'd)

SCOAP³ global team



Chair: Deputy Chair:

Dr. Ralf Schimmer (Germany)

Ivy Anderson (USA)



Executive Committee:

Clare Appavoo (Canada)

Ivy Anderson (USA)

Dr. Jun Adachi (Japan)

Nina Karlstrøm (Norway)

Dr. Salvatore Mele (CERN)

Dr. Stefano Bianco (Italy)



Operations Manager:

Alexander Kohls (CERN)

Repository Manager:

Wojciech Ziółek (CERN)

History, Business Model and Operations

Questions & Answers

Questions?

You can find further information and a record of this webinar on our homepage: http://scoap3.org

SCOAP³ Webinar & Forum

18 November 2014

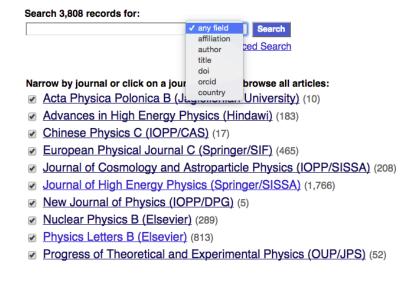
Agenda

- The Repository & How To Search
- ORCID in SCOAP³
- Beyond search: feeds and API
- 4 API Use Case: INFN Open Access Repository

The SCOAP³ Repository

Launched in February at repo.scoap3.org (Invenio based)





Welcome to the SCOAP³ repository.

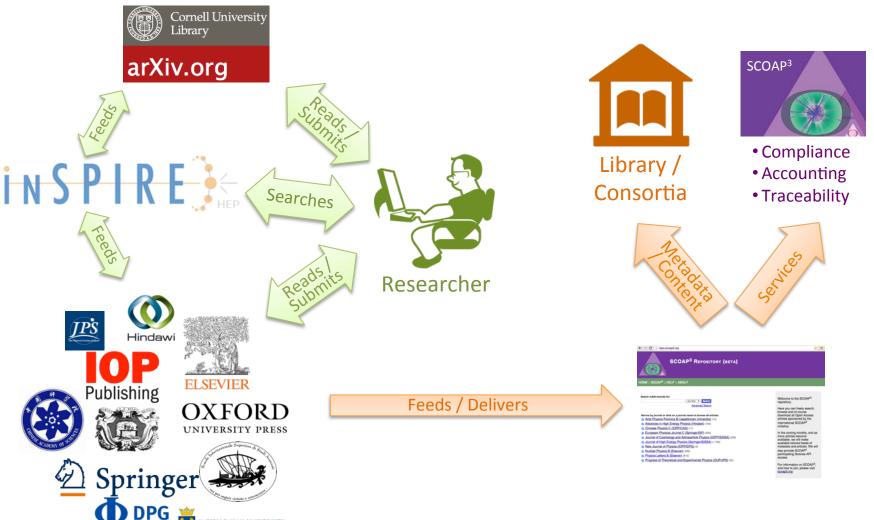
Here you can freely search, browse and of course download all Open Access articles sponsored by the international SCOAP³ initiative.

In the coming months, and as more articles become available, we will make available tailored feeds of metadata and articles. We will also provide SCOAP³ participating libraries API access.

For information on SCOAP³, and how to join, please visit scoap3.org.

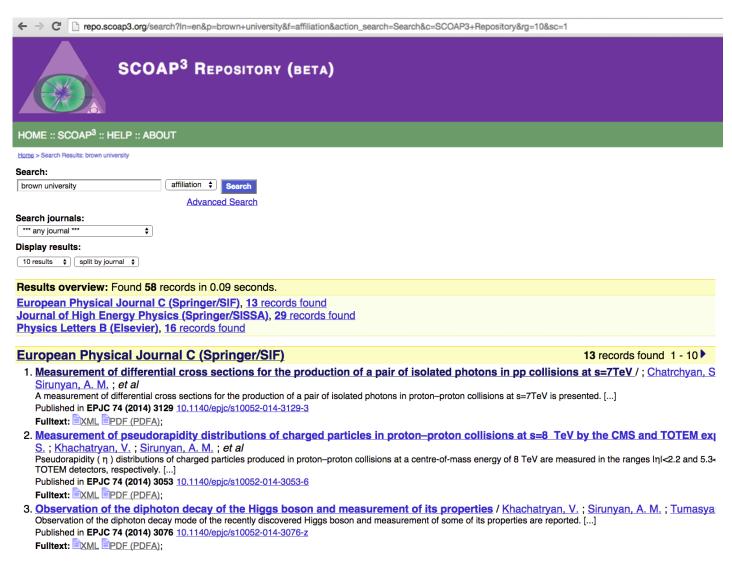
The SCOAP³ Repository – A tool for participating libraries

Open metadata, feeds and content to build services. SCOAP³ compliance monitoring



Searching the SCOAP³ Repository

How to select articles from a given country or institution?

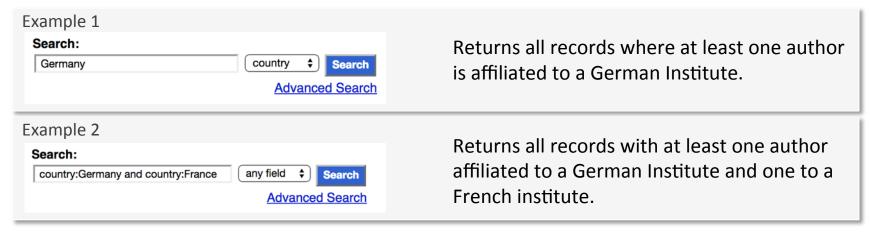


Searching the SCOAP³ Repository

Affiliations and countries as starting points for extracting records

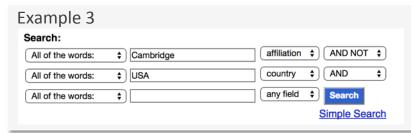
Examples: Searching by country

Country of affiliation extracted* from publishers' feeds



^{*}Country extracted from the last string (comma separated) in the affiliation provided by the publisher; normalized to standard English country name or abbreviation.

Example: Advanced Search



Returns all records with authors from Cambridge (not the U.S. one)



NB Information on "Corresponding Author" is not available.

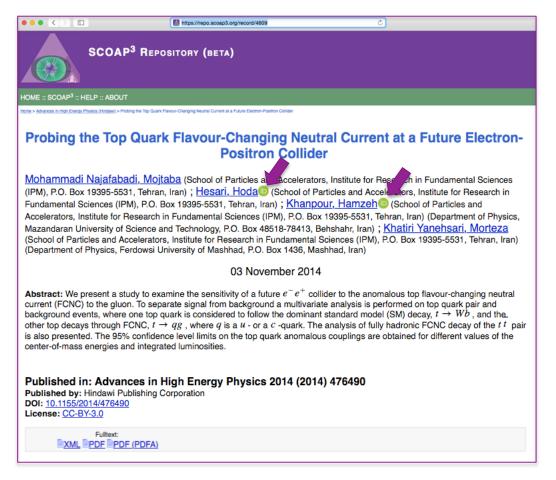


Agenda

- 1 The Repository & How To Search
- ORCID in SCOAP³
- Beyond search: feeds and API
- 4 API Use Case: INFN Open Access Repository

ORCID – tool for libraries to extract relevant data

Known ORCIDs are fed by publishers and displayed in the repository



Already 7.1% of articles and 1.4% of authors with ORCIDs in the repository

Large growth to be expected: publishers not yet capturing authors
ORCIDs

SCOAP3 partners can promote ORCIDs with their authors, and later query the repository.

ORCIDs in the SCOAP³ Repository (cont'd)

Search for ORCID already enabled



Agenda

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Extraction of relevant records, content, metadata

Two options already supported



OAI-PMH standard (Open Archives Initiative Protocol for Metadata Harvesting)

- Formats: DublinCore, MARCXML
- Connector: http://repo.scoap3.org/oai2d
- Sets: http://repo.scoap3.org/oai2d?verb=ListSets (global & for every journal)
- Documentation: http://scoap3.org/scoap3-repository/oai-pmh-feed



Search API to return arbitrary set of records from (complex) searches

- Formats: MARCXML
- Connection by HTTP request: http://repo.scoap3.org/search?p=xxxxxx&of=xm
 - xxxxxx => actual query (e.g. affiliation:Cambridge not country:USA)
 - of=xm => return XML format
- Documentation: http://scoap3.org/scoap3-repository/xml-api

Agenda

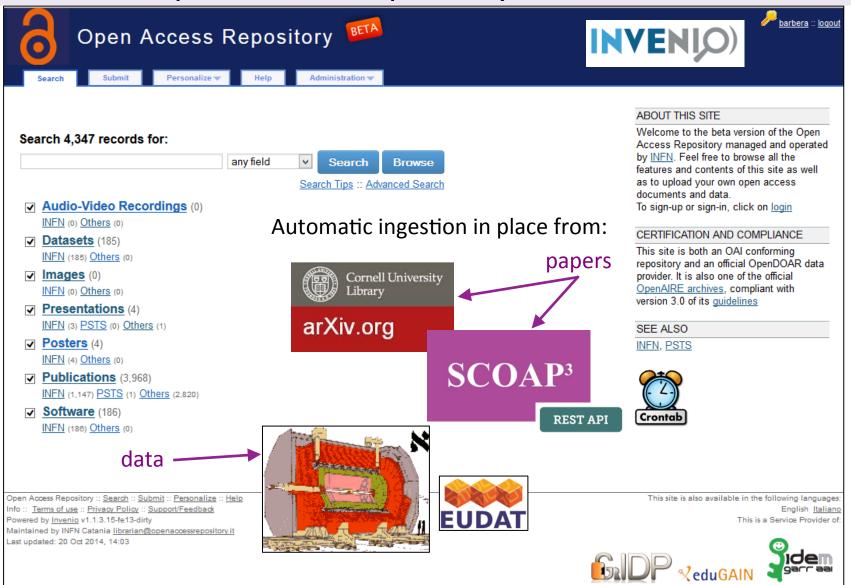
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Italian National Institute of Nuclear Physics

Governmental Institute which promotes, coordinates and performs research in the field of sub-nuclear (particle), nuclear and astro-particle physics, as well as research and technological development necessary, in close collaboration with Universities, and in the context of international collaboration.



The INFN Open Access Repository (www. openaccessrepository.it)



Automatic Ingestions of SCOAP³ data

Overview of technical implementation

public static HttpMethod callAPISCOAP3(String date,int jrec, int num_rec) { Call SCOAP³ API HttpMethod method =null; method=new GetMethod("http://repo.scoap3.org/search?of=xm&p=datecreated:"+date+"&jrec=" + jrec + "&rg=" + num rec); Step 1 Connect to the SCOAP³ HTTP endpoint and pull required information public static void getRecordsScoap3(String date,int jrec, int num_rec) { String responseXML = null; HttpClient client = new HttpClient(); HttpMchod method = callAPISCOAPJ(date,jrec, num_rec); Get SCOAP³ records client.executeMethod(method); Step 2 if (method.getStatusCode() == HttpStatus.SC_OR) { method.getResponseBody();
responseXML= convertStreamToString(method.getResponseBodyAsStream());
FileWriter fw = new FileWriter("MARCXML_SCOAP3_"+date+"/marcXML_scoap3_" + jrec + "_" + num_rec + Save retrieved records in local XML file fw.append(responseXML): fw.close(); Format SCOAP³ records Step 3 Create compliance with Open Access Repository scheme (modify MarcXML tags) Ingest final data Step 4 Ingest final, reformatted data in Open Access Repository

Automatic Ingestions of SCOAP³ data

Summary and Conclusions

- ✓ The Open Access Repository (OAR) is a pilot data preservation and Open Access platform for INFN as well as other Italian organizations. The audience are both researchers and citizen scientists.
- ✓ The recently-released SCOAP³ Repository RESTful API's enables staightforward fully-automated ingestion of SCOAP³ resources.
- ✓ The ingestion of INFN (co-)authored papers and data from other highly reputed repositories is considered a very important functionality of INFN OAR: post-peerreview versions of articles are important for evaluation of research (from single researchers to entire research organisations), funding applications, and academical ranking, both at national and international level.
- ✓ The combination of the SCOAP³ initiative for Open Accces and the corresponding tools is a crucial service for our scientific community

Questions & Answers

Questions?

You can find further information and a record of this webinar on our homepage: http://scoap3.org

SCOAP³ Webinar & Forum

18 November 2014

2014 set up the operations, 2015 will target the next phase

2014

Accomplishments in the First Phase

- Established and solidified operations
- Significantly expanded the partnership

2015

Begin planning for the next phase 2017-2019 with many things to do:

- Assess progress to date
- Solicit the views of all partners and stakeholders:
 libraries & consortia / funding agencies / publishers
- Review journal growth
- Liaise with new journals that might have appeared in the meantime
- Reach out to other journals / publishers not part of the first phase
- ♦ Additionally, in 2015 we will continue to extend the partnership to more countries and libraries!

Extending our achievements into the future

Phase 2 will build on the assets that we have successfully cultivated thus far:

- The commitment of CERN to host the initiative
- Robust governance structure with dedicated professionals from around the world
- Experience from the first tendering process (including reconciliation facility)
- Continuously growing global partnership
- Sound processes, workflows and technical solutions
- Strong partnership with the participating publishers

CERN, the Governing Council and the Executive Committee will soon develop a roadmap that will lead us into the second phase 2017-2019 in consultation with all parties and stakeholders

Questions & Answers

Questions?

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The SCOAP³ Webinar & Forum

Introduction

Thank you for your attention!

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