



Software @ SFU Library

A Work in Progress



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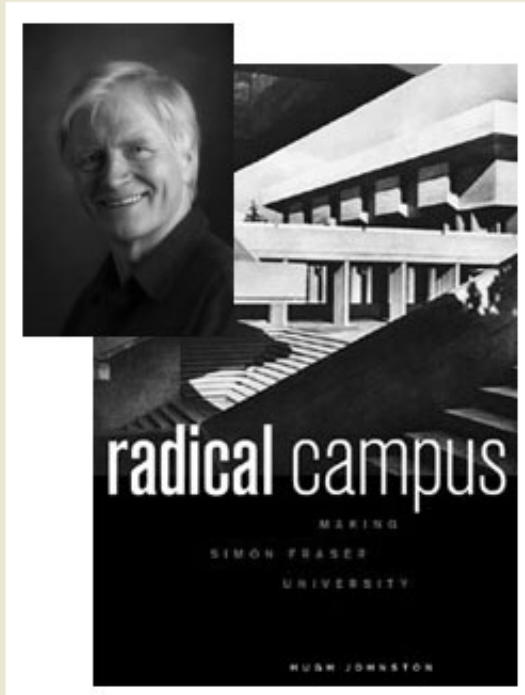


Outline

- Some SFU facts
- Software @ SFU Library
- Appropriate business models
- Software development & support challenges
- Financial sustainability



Simon Fraser University



radical campus: MAKING SIMON FRASER UNIVERSITY
by Hugh Johnston

- named after the fur trader and explorer; 1776-1862;
- opened 1965; 40 yrs old;
- 3 campuses: Burnaby (mountain); Vancouver (downtown); Surrey (suburb)
- 759 faculty; 3190 grad; 23480 undergrad
- Macleans magazine survey: 5 times rating as no.1 comprehensive, invariably in top 4
- SFU Library: 135 staff; 1.4 million volumes; 26000 online & print journals



Software @ SFU Library

- Open source software developed and/or supported at SFU Library
- **reSearcher Suite**: in-house library software developed at SFU Library commencing in mid-1990s
- **PKP Suite**: originally developed under direction of John Willinsky at the University of British Columbia
- shared responsibility for ongoing support and development for PKP suite moved to SFU Library in 2005



reSearcher

ABOUT

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SEARCH

CUFTS

Knowledgebase, and electronic collection management tool

[download now!](#)

GODOT

Full-text link resolver and interlibrary holdings locator and requesting system

[download now!](#)

dbWiz

Federated searching with a single interface across hundreds of resources

[download now!](#)

CM

Capture, manage and export bibliographic data with a personal online library

[download now!](#)

reSearcher is an open source project of the Simon Fraser University Library
Web site powered by the open source eZ publish content management system



ReSearcher Suite

- [Importance of consortial support](#)
- Recent international expansion: University of Roskilde; National Aerospace Library in Netherlands
- Queries from Hong Kong, India, Italy, New Zealand, United Kingdom, United States (SUNY)



PKP Suite Overview

- **OJS: Open Journal System**
- 550+ journals; international uptake (IBICT, AJOL, others)
- SFU Library: currently 16 OJS instances; 8 with content; another 8-10 in “exploratory” stage
- 542 downloads of OJS 2.1 in 3 weeks following release in early 2006
- **OCS: Open Conference System**
- Create and maintain a conference Web site
- **PKP Metadata Harvester:** OAI compliant (v.1.1 & 2)
- 335099 papers from 262 archives (Mar.31/2006)



ISSN 1522-0207
May 2005
Critical Studies in Improvisation
Études Critiques en Improvisation
www.criticalimprov.com



Theoretical Economics

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Theoretical Economics aims to become the leading journal in economic theory. It differs from existing journals in one major respect: all content is freely available.

Current Issue: Volume 1, Issue 1 (March 2006)

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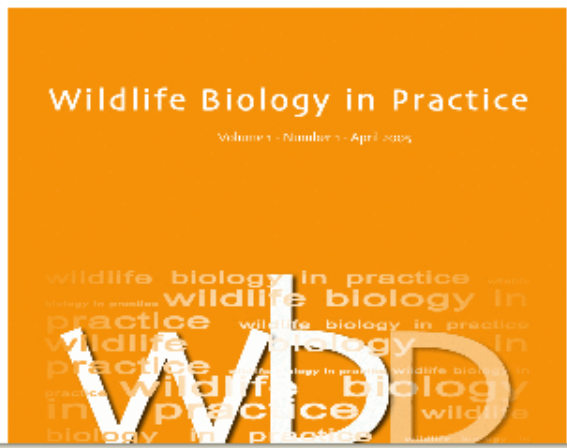


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Conference Program

- ◆ Please, pick a [copy of the program](#) (in PDF format, 230 KB)

June, 23th

- ◆ 8:00 Welcome and Registration
- ◆ 8:30 - 10:00 **Workshop 1**
Chair: Bob Martens
A PKP Open Conference System: how a portable, open source conference management system can help to run a conference
Leonardo Lazarte and Ana Cristina Moreira - University of Brasilia - Brazil
- ◆ 8:30 - 10:00 **Workshop 5**
Chair: Marcelo Bax
The contribution of open archives initiatives and institutional repositories to the advancement of knowledge
Leslie Carr - University of Southampton, England;
Leslie Chan - University of Toronto, Canada;
Jon Swearing - University of Toronto, Canada

PUBLIC KNOWLEDGE PROJECT

Open Archives Harvester

[Home](#)

Harvester Stats

The PKP Open Archives Harvester currently has **335099** papers from **262** archives indexed.

Add Your Archive

[Click here](#) to add your system to our index.



Open
ACCESS
Research

PUBLIC
KNOW
LEDGE

Welcome to the Public Knowledge Project's metadata archive...

To improve the accuracy of searching within the PKP System, authors have been asked to index their work, where applicable, by discipline(s), topics, genre, method, coverage, and sample. This allows you to search for "empirical" versus "historical" studies, for example, under "index terms." You can also view a document's index terms by selecting the complete record from among the search results.

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PKP/CCSP/Library Partnership

- Partnership formed in early 2005
- Public Knowledge Project at UBC
- SFU's Centre for Canadian Studies in Publishing
- SFU Library
- Ongoing support and development of PKP software suite



Some Common Characteristics

- Developed and based in academic environments
- Vancouver
- Niche applications
- LAMP: Linux, Apache, MySQL, PHP/Perl
- GPL Open Source License



Some Differences

- **IT nuances:**
 - PHP vs. Perl
 - Bugzilla vs. Trac
 - PHP forum vs. wiki
- **User Communities:**
 - Academics vs. librarians
- **Development communities:**
 - PKP growing & more active (plug-in & language contributions)



Appropriate Business Models

- Commercial models for open source
- Open access models
- Software @ SFU Library model



Commercial Models for Open Source

- Limited applicability, esp. for “value add” potential
- Importance of branding and reputation
- “Closer to Home” models
 - Koha
 - Liblime



koha v.2.2

Koha is a full-featured open-source ILS. Developed initially in New Zealand by Katipo Communications Ltd and first deployed in January of 2000 for Horowhenua Library Trust, it is currently maintained by a team of software providers and library technology staff from around the globe.

- > [read more](#)
- > [demo](#)
- > [download](#)



[KohaCon Paris 2006 - May 2nd & 3rd](#)

The koha community invites you to participate in the first Koha Conference to be held in Paris, France. The conference will be held over two days. Do you want to be a part of KohaCon? [Register today! It's free to attend!](#)



The Koha community welcomes West Liberty Public Library of Iowa, USA. [visit WLPL](#)

Latest News

- > [Join Us In Paris For KohaCon 2006](#)
27 Mar 2006
- > [Chris speaking at linux.conf.au](#)
25 Jan 2006
- > [Koha 2.2.5 Released](#)
10 Jan 2006

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koha (kō•hä)

n.

1. a contribution.
2. a gift.
3. the first open-source ILS.



OPEN SOURCE LIBRARY SOLUTIONS

your way

Integrated library technology solutions:

- ☐ Koha ILS
- ☐ Mambo Intranet
- ☐ DiscrimiNet Filter Appliance

News

March 2, 2005

West Liberty Public Library
Migrates to Koha

December 5, 2005

LibLime Partners With Index
Data to Enhance Koha

LibLime Demos

Preview our products in
LibLime Virtual Library and
evaluate how they can meet
your needs.

- >> Koha OPAC
- >> Koha Intranet
- >> Self-checkout
- >> Mambo Intranet





Open Access Models: Willinsky

- home pages maintained by academic dept.
- e-print archive maintained by institution (arXiv.org)
- author fees (Biomed Central)
- subsidized by scholarly society, institution, foundation (First Monday)
- dual mode, i.e. online subsidized by print subscription (Journal of Post Graduate Medicine)
- delayed open access w. subscription for immediate access (NEJM)

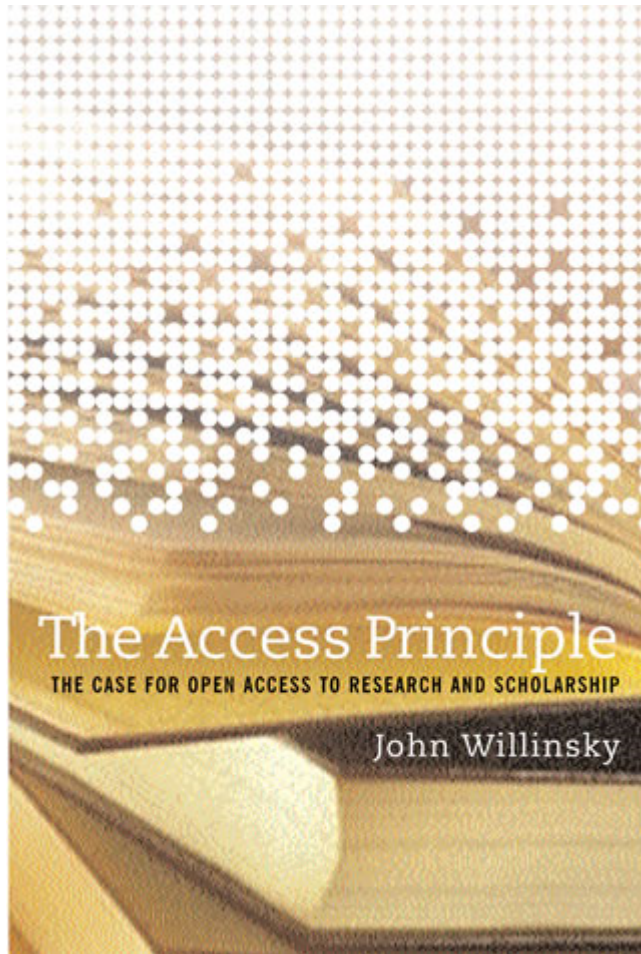


Open Access Models: Willinsky

- partial open access, i.e. selected articles (Lancet)
- per capita, offered scholars in developing countries as a charitable contribution (HINARI)
- indexing access only, pay for full article ([SSRN](#) “flip”) (Science Direct)
- cooperative, member institutions (libraries, scholarly societies) contribute to support
- [advertising to recover production and hosting costs, [Scholarly Exchange](#)]



The Access Principle



- October 2005
- ISBN 0-262-23242-1
- 6 x 9, 272 pp.
- \$34.95/£22.95 (CLOTH)



Software @ SFU Library Model

- Equivalent to a balanced or mutual fund
- Operational costs recovered by combination of the following:
 - Consortial support (COPPUL, ELN)
 - Partnership commitment
 - Standard hosting services and support
 - Code vs. content: CUFTS knowledgebase offered as subscription
 - Support offerings, pricing, order form



Software Package	Software ONLY	Annual Hosting & Support by SFU	
		Yr.1	Yr.2 & on
Researcher Suite			
Citation Manager	\$ 0	\$ 1,000	\$ 1,000
C U F T S (inc. G O D O T)			
- up to 10,000 students	\$ 0	\$ 1,000	\$ 1,000
- more than 10,000 students	\$ 0	\$ 1,500	\$ 1,500
d b W iz (inc. G O D O T)			
- up to 5,000 students	\$ 0	\$ 2,500	\$ 1,000
- up to 10,000 students	\$ 0	\$ 3,500	\$ 2,000
- up to 15,000 students	\$ 0	\$ 5,000	\$ 3,000
- more than 15,000 students	\$ 0	\$ 7,500	\$ 5,000
PKP Suite			
Open Journal System (per title/instance)*	\$ 0	\$ 750	\$ 750
Open Conf. System (per conf./instance)*	\$ 0	\$ 500	\$ 200



Software @ SFU Library Model

- Major development undertaken only if special or one time funding secured
- **Support subsidy** and up-front contribution from various partners: COPPUL sites and dbWiz; CARL and PKP MH; INASP and OJS
- **Research initiatives:** importance of PKP and John Willinsky
- **Major grant funding initiatives:**
 - CFI & [Synergies](#) (OJS)
 - SSHRC KIS & (OCS)

*synergies*Université de Montréal
University of Calgary
University of New Brunswick
Simon Fraser University
University of Toronto[Search](#)[Browse](#)[News](#)[Partners](#)[About Us](#)[Infrastructure & Research](#) [Researchers & PIs](#) [Current Initiatives & Relevant Links](#)

Lead Institution

Université de Montréal

Principal Partners

University of Calgary, University of New Brunswick, Simon Fraser University, and University of Toronto.

Associated Partners

Windsor University, York University, University of Guelph, University of British Columbia, University of Victoria, Malaspina University College, Acadia University, Dalhousie University, Memorial University, Mount Saint Vincent University, St. Francis Xavier University, University of Alberta, University of Lethbridge, University of Winnipeg, University of Regina, University of Saskatchewan, Athabasca University, Université Laval, Université du Québec à Montréal, McGill U.





Marketing & Open Source

- Limited ability to compete with commercial equivalents: marketing budgets, graphic artists, swag, etc.
- Word of mouth (listservs, blogs)
- [Journal articles](#)
- Conference presentations
- Reputation important



Support & License Agreements



Software @ SFU Library - Support Agreement

This Agreement for Support Services (the "Agreement") is entered into between Simon Fraser University Library located in Burnaby, British Columbia, Canada (the "SFU Library"), and the customer (the "Customer")...

1. Technical Support Services.

Subject to the terms and conditions of this Agreement, and in exchange for the payment of Support Fees the SFU Library agrees to provide certain technical support services to the Customer in connection with the Customer's use of authorized versions of specific open source software (the "Supported Software")...

2. Support Offerings & Scope.

The scope of services provided to the Customer under this Agreement is subject to: (a) the type of support selected by the Customer in the Order Form; and, (b) the Support Options for the applicable Support Offering as of the date the Customer submitted the Order Form.

3. Compensation.

Customer shall pay fees to the SFU Library ("Support Fees") in exchange for the provision of technical support services pursuant to this Agreement. Support Fees shall be as described in the Support Options for the applicable Support Offering as of the date the Customer submitted the Order Form.

Support Fees are due and payable no later than thirty (30) days after the date Customer submitted the Order Form. Support Fees during any Renewal Term (as defined in Section 4, below) shall be equal to the aggregate amount set forth in the applicable Support Options for the Support Offering selected by the Customer forty-five (45) days prior to the commencement of such Renewal Term...

4. Term; Renewal; Termination.

For all Support Offerings, the term of this Agreement shall begin on the date that the SFU Library generates an e-mail welcome message and not on the activation of Customer's account. Notwithstanding commencement of the term of this Agreement, the term of each annual Support Offering shall continue for the number of months stated in the Order Form (the "Initial Term"), which shall in no event be less than twelve (12) months. This Agreement may be renewed for successive renewal terms of the same length as the Initial Term (each a "Renewal Term").

- 12. Force Majeure. Neither party will be liable to the other by reason of any failure in performance of this Agreement if the failure arises out of the unavailability of communications facilities or energy sources, acts of God, acts of the other party, acts of governmental authority, fires, strikes, delays in transportation, riots, terrorism, war, attacks by hostile extraterrestrial forces, or any causes beyond the reasonable control of that party.



Conventional Business Practices

- RFPs, RFIs, price quotations (e.g. TAL, eIFL)
 - Total population & Gross Domestic Product
 - “Best and final pricing” request
- Ability of potential users to appreciate differences between open source & commercial products
- Billable time
- Invoicing



Development & Support Challenges

- More than just releasing new code!
- Clean, documented code
- Ease of installation: bundling, install scripts.
 - Good end user manuals
 - Technical documentation
- Use of standard tools: bug reporting, user forums
- Responding to support forum queries, emails, etc.



reSearcher / DOCUMENTS

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- NEWS
- DOCUMENTS**
- DEVELOPMENT
- PARTNERS
- SERVICES
- FAQ
- CONTACT
- SEARCH

DOCUMENTS

Online Documentation

- [CUFTS Administration Guide](#)
- [dbWiz Administration Guide](#)
- [GODOT Administration Guide](#)
- [GODOT Cookbook](#)
- [reSearcher Around the World](#)

reSearcher Bibliography

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PUBLIC KNOWLEDGE

SIMON FRASER UNIVERSITY library

OJS in an Hour

An Introduction to Open Journal Systems
Version 2.1

Last Updated: February 16, 2006

OJS in an Hour 1



Plug-in Architecture

- Implemented with OJS 2.1 in early 2006
- Encourage code contributions
- Reduce yes/no decisions
- Minimize changes to core code and potential complexity
- Reduce testing implications



Some Issues

- **Development priorities:**
 - Roadmaps?
 - Patches vs. releases; frequency?
 - Who decides?
- **Too much “success” too soon:**
 - Requirement to hire additional staff?
 - Establish a separate operation?



Financial Sustainability

- Review of fiscal year 2005/06
- Estimate of expenditures
- Cost-recovery
- Cost-avoidance
- Cost-intangibles
- **Notes:** in \$CAD; some amounts have been rounded and/or averaged for confidentiality



Expenditures

Table with 3 columns: Category, Amount 1, Amount 2. Rows include PKP - Personnel, reSearcher - Personnel, and Other, with a final TOTAL row.



Cost Recovery

Table with 2 columns: Item description and Amount. Items include COPPUL annual support, CUFTS v.2 development, ELN annual support, etc. Total: 153000.



Cost Avoidance

PKP - Personnel

.05 fte developer	4 5 0 0 0	2 2 5 0	
.1 fte systems librarian	7 0 0 0 0	<u>7 0 0 0</u>	
Total:		9 2 5 0	9 2 5 0

reSearcher - Personnel

C U F T S : .2 fte programmer	7 0 0 0 0	1 4 0 0 0	
G O D O T : .1 fte programmer	7 0 0 0 0	7 0 0 0	
dbW iz : .2 fte programmer	7 0 0 0 0	1 4 0 0 0	
.3 fte systems librarian	7 0 0 0 0	2 1 0 0 0	
.1 fte administrative	9 0 0 0 0	<u>9 0 0 0</u>	
Total:		6 5 0 0 0	6 5 0 0 0



Cost Avoidance

reSearcher - Software

ERM Purchase (CUFTS)	4 0 0 0 0	5 7 0 0	
ERM support/knowledge base @ 20%		8 0 0 0	
Link Resolver Purchase (GODO)	4 0 0 0 0	5 7 0 0	
Link Resolver support @ 12%		4 8 0 0	
Meta-search Purchase (dbWiz)	4 0 0 0 0	5 7 0 0	
Meta-search support @ 12%		<u>4 8 0 0</u>	
Total:		3 4 7 0 0	3 4 7 0 0

Other

IT infrastructure: 15%	1 5 0 0 0 0	2 2 5 0 0	
Admin.Overhead & Misc. (7.5%)		<u>9 8 5 9</u>	
Total:		3 2 3 5 9	3 2 3 5 9



Cost Summary

- Expenditures: \$342,700
- Cost-Recovery: \$153,000
- Cost-Avoidance: \$141,309
- Difference: (\$ 48,391)



Cost-Intangibles

- **Or...what good things does \$50K buy your organization?**
- Ability to customize & change
- Recruitment & retention benefits
- Avoid “dumbing down”
- Contribution to academic & open source communities
- Reputation



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THANK YOU

Questions?

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