

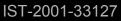


Scientific Publication Process Re-engineering with SciX Open Publication Services

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Publication process reengineering

It must be remembered that there is nothing more difficult to plan, more doubtful of success, nor more dangerous to manage than the creation of a new system. For the initiator has the enmity of all who would profit by the preservation of the old institutions and merely lukewarm defenders in those who would gain by the new one. - Nicolo Machiavelli

Contents

- **::** analysis
 - defenders of the old systems
 - Iukewarm supporters
 - barriers to change
- **SciX Open Publishing Services**
 - how open
 - for publishing of what
 - what do we mean by "services"
- **::** conclusion



SciX project

- **IST-2001-33127, KAIII**
- **EU** funding €1.000.000
- 200 person months
- **Project duration**
 - 1.2.2002 31.5.2004
- **Partners: 7**
- Deliverables: 20, all public and/o open source
- :: Web: www.SciX.net

Maciavellian analysis of open publishing

	enmity	lukewarm support	"impact factor"
publishers	defend monopoly	new small innovative publishers like biomed	high
libraries	handling paper reason for their existence	some very supportive	low
scientists and researchers	seniors with CVs full of paper based references	the internet generation	low, unless organized
r&d institutions		save money? promote institution	medium
learned societies	some endorsing/editing paper based journals	they have nothing to loose	potentially very high
funding agencies	they love "objective" SCI and related journals	don't care much about efficiency	very high
general public, taxpayer	has no access anyway	is not aware	very low because not aware

Turk, 2004

Media addressing the motives for publications

	paper journals	open access digital publishing			
		electronic	topic	institutional	personal
		journals	archives	archives	archives
registration of primacy			digital notary, similarity measurement		
quality certification			publication model invention		ATION EXCHAN
dissemination		truly open	truly open	OAI, google	google, OAI
archiving		involve libraries		org. change	
bibliometrics		alternative to ISI / JSR			
profit & sustainability		business model invention org. change			

Barriers on the transition path



	paper journals	open access digital publishing			
		electronic journals	topic archives	institutional archives	personal archives
technical	!	workflow	effort	retrieval and exposure	
legal		-	copyright issues		
financial	!	who pays		effort?	effort?
psychological		recognition	public interest		
organizational		who is the "publisher"		new roles for old organizations	

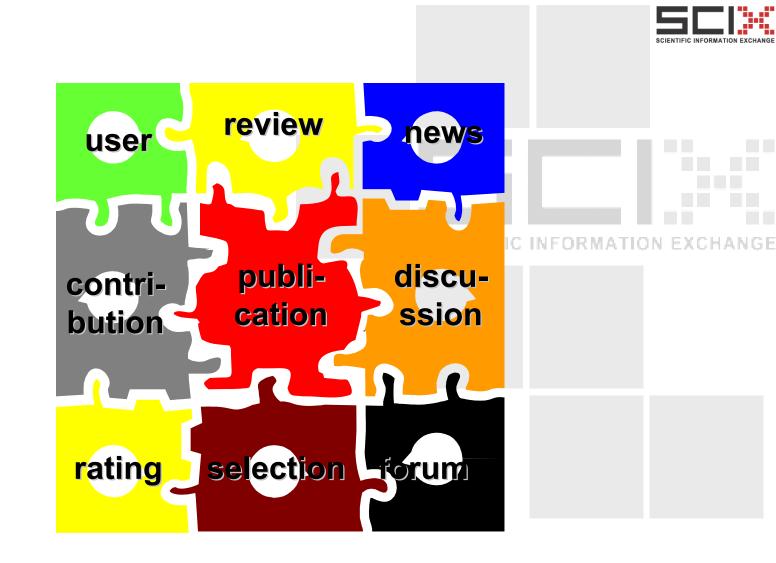
Bjoerk, 2003

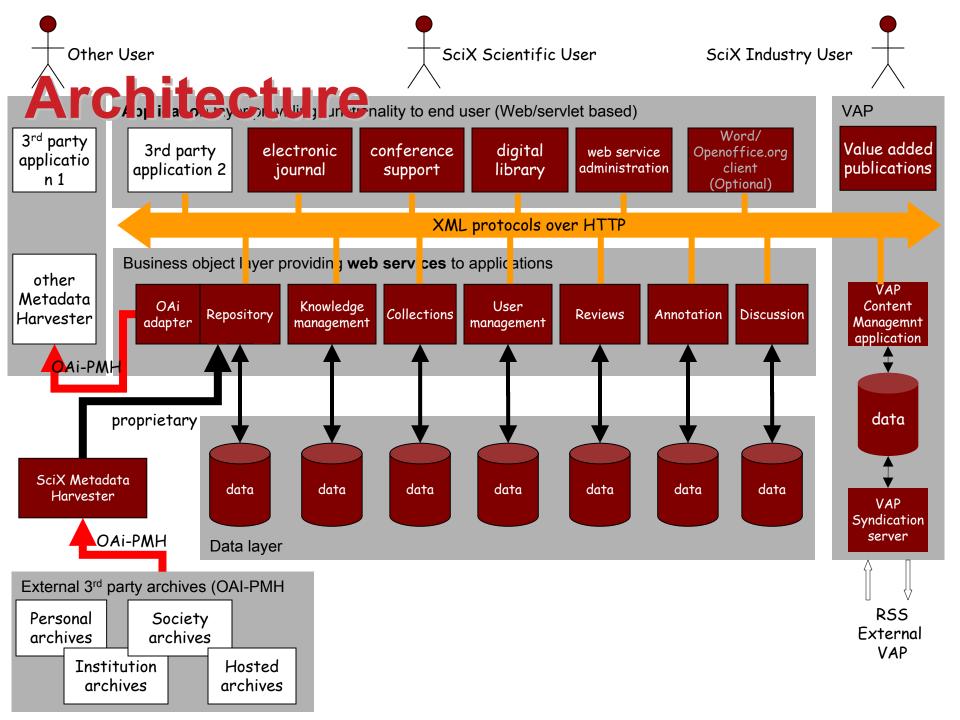
Lessons learned

- learned societies are potentially a very good target
- they lack organizational and financial structure
- time, cost and workload efficient

SciX Open Publishing Services

SciX Open Publishing Services





Open

To software:

- ••• OAI PMH 2.0
- Google friendly
- Constitution of the second sec
- Reference Manager, Citation Manager and Endnote.
- Really Simple
 Syndication (RSS)
 feeds
- Office Smart Tags

To people:

- editorial interface
- data export/import from PC formats
 - metadata_{ntific inform} extensions
- ...



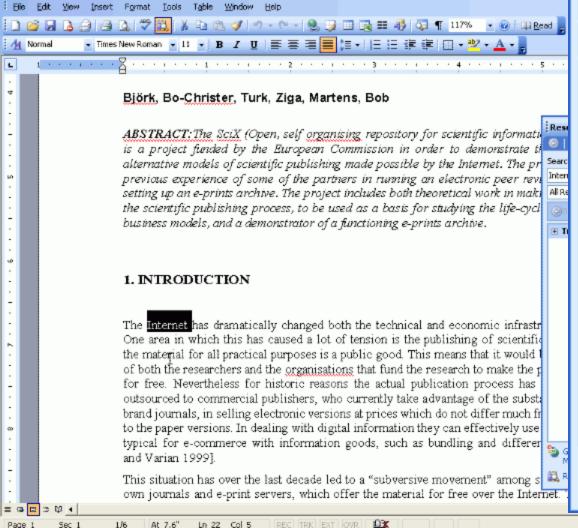
Office 2003

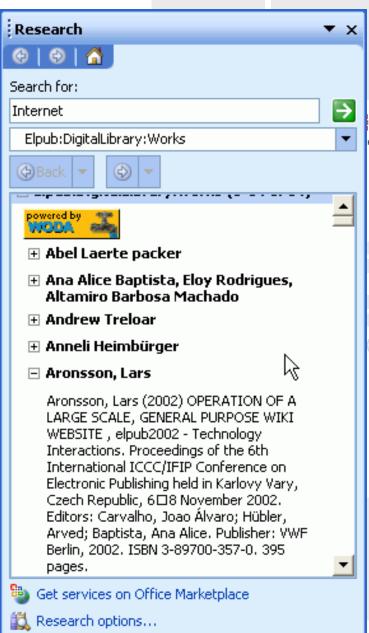
- "research task pane"
- **API** documented Nov. 7 2003
- **SOAP** based
 - SciX services were ready
- **up and running now**



Office 2003 (cont.)

🛂 paper - Microsoft Word





Publishing

- personal archives
- institutional archives
- learned society archives
- **topic** archives
- electronic journals
- conferences

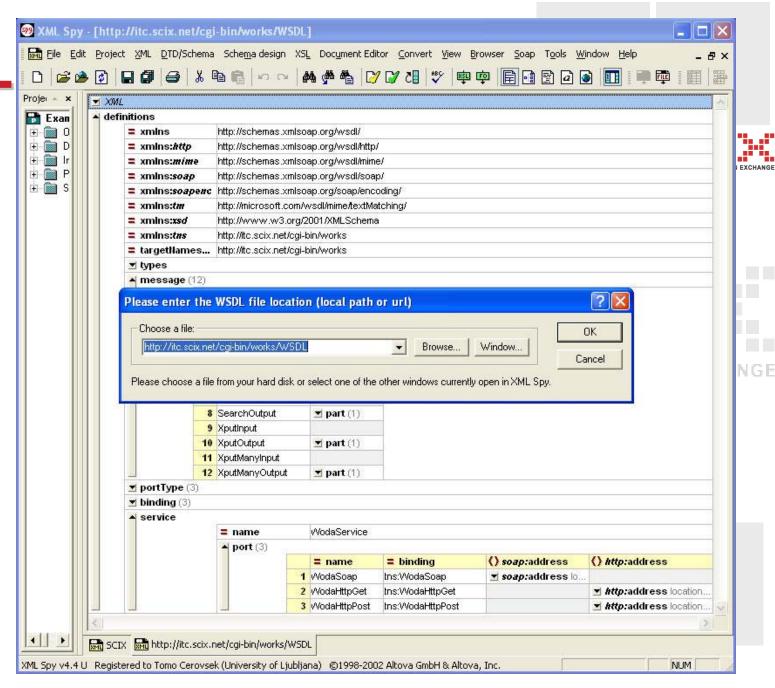
- **multilingual, translatable**
 - English, German, Slovenian, Spanish ...

Services

- **Web Services Architecture**
- Truly Distributed Relational Databases
 - relations managed by Web Services interface
- **WSDL** for all public functions
- SOAP, XML-RPC, XML, XML-Mime bindings
- CAI, RSS, Office RTP ...



WSDL



Implementations (up and running)

- one journal
- **three conferences**
- five topics incl. ELPUB
- 1 personal and 2 institutional archives

- **::** multilingual
- rentable services, Web based renting and setup

Availability

- **stable**, up and running
- **open source**
- to be released later this spring
- missing: documentation, installer



Open Publishing Services

PROJECT IST. 2001 - 33127

Summary: This page contains some basic information about the SciX Open Publishing

SciX Open Publishing Services (SOPS) is software that allows setting up various on-line scientific publishing media such as:



Conclusion

- SCIENTIFIC INFORMATION EXCHANGE
- current publication models provide a meaningful role to many players, to all with significant impact
- financial benefits were not confirmed by the SciX project, these would also benefit those not really interested in making a saving
- control benefits are the reason for strong support by the learned societies and individuals
- learned societies tend to have a small organizational footprint and shoestring budgets
- open publishing should be made available to them as a part of a broader package
- a digital archive is just one cornerstone of the technical solution

Invitation

- SciX Final Review / Workshop
- La April 20th, Ljubljana, Slovenia
- focus: Open publishing an opportunity for learned societies to regain control of the scientific information exchange

more information at www.SciX.net

