www.sciX.net

Scientific Publication Process Re-engineering with SciX Open Publication Services

IST-2001-33127

Žiga Turk, Assoc.P...

ziga.turk@itc.fgg.uni-...

OAI Worksh...
Geneva, February 2...

Publication process re-engineering

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
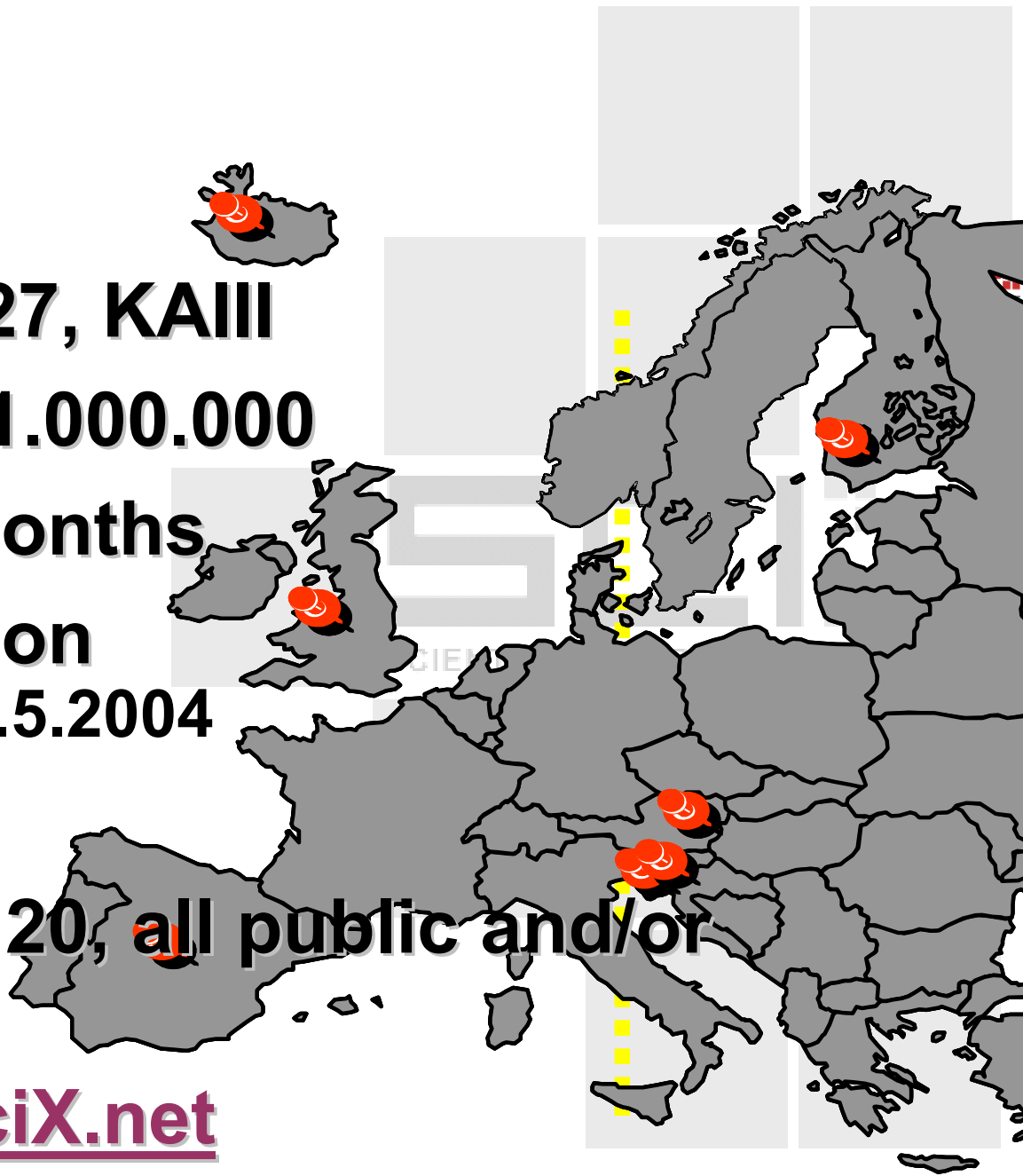 - lukewarm supporters
  - barriers to change

- **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/or 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 journals	topic archives	institutional archives	personal archives
registration of primacy			digital notary, similarity measurement		
quality certification			publication model invention		
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**

:: **technical support must be very time, cost and workload efficient**

:: **SciX Open Publishing Services**

SciX Open Publishing Services

Architecture
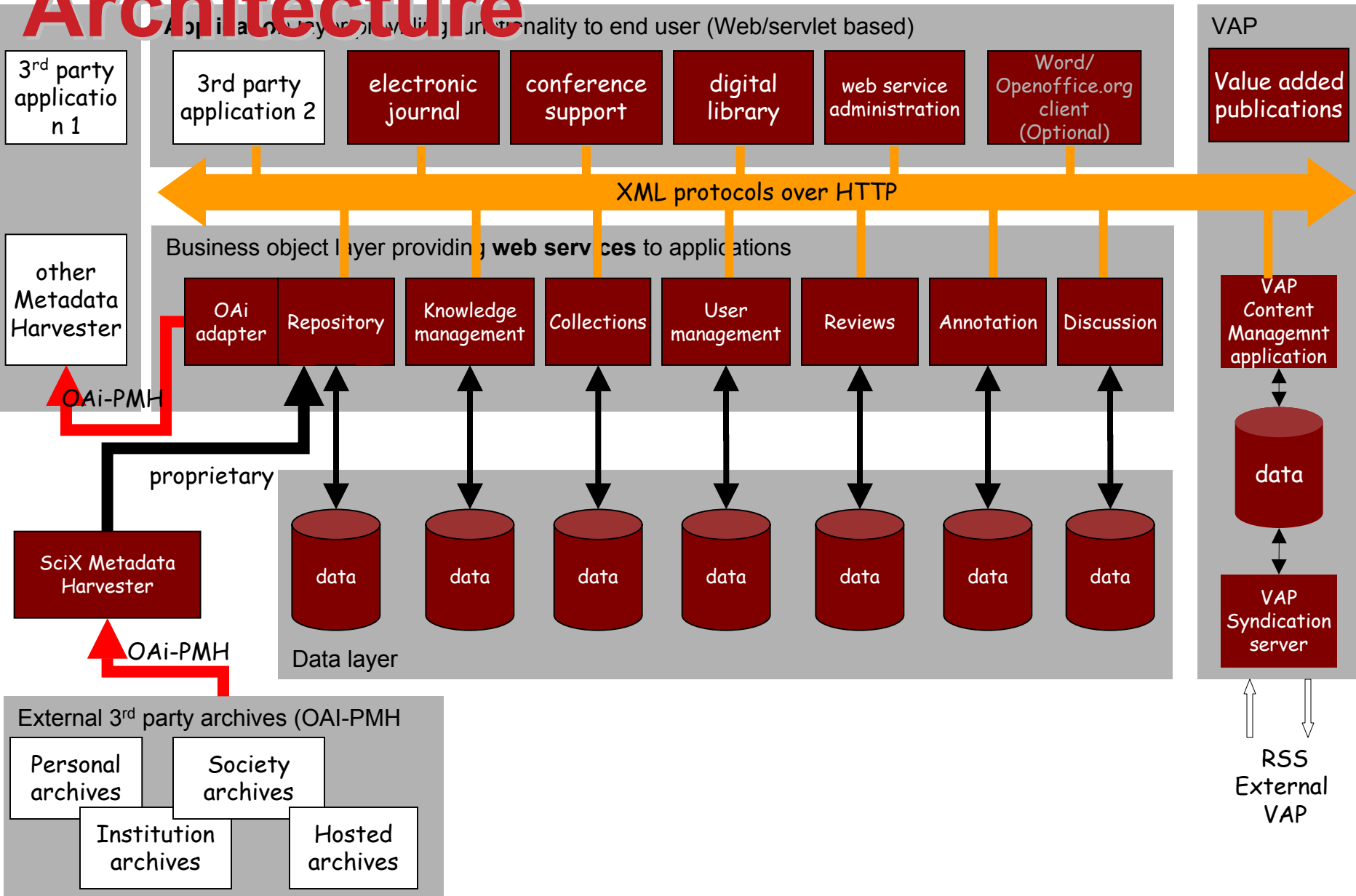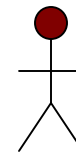
Open

To software:

- OAI PMH 2.0
- Google friendly
- Office 2003 Research Task Pane
- 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 extensions
- …

SCIX
SCIENTIFIC INFORMATION EXCHANGE

Office 2003

- "research task pane"

- API documented Nov. 7 2003

- SOAP based
  - SciX services were ready

- up and running now

Office 2003 (cont.)

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**

- **OAI, 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**

SCIX SCIENTIFIC INFORMATION EXCHANGE

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

- 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**

- **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