

# SciX project: Lowering the technical, economic and social barriers to open scientific publishing

**SCI X**  
SCIENTIFIC INFORMATION EXCHANGE

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[www.SciX.net](http://www.SciX.net)

# Background

- website (1993)
- the ITcon journal (1996)
  - electronic journal of IT in construction
  - publication time 4-5 months
  - 500-1000 readers per paper
- CUMINCAD (1999)
  - cumulative index of CAAD
  - *the* resource for CAAD community
  - 800+ registered users
- survey on e-publishing (2000)
  - read electronic, publish on paper; don't care who reads
- W78'96 and W78'2000
  - web based conference organisation
- interoperability of CAD software
  - 1000s data types
  - 100s of programmes

CUMINCAD: Search Results - Netscape

File Edit View Go Communicator Help

Location: <http://tc.fgg.uni-lj.si/db/use/cumincad/Search?search=Turk&paint=1&Submit=Search>

**CUMINCAD: Search Results**  
cumulative index of computer aided architectural design

home | search | advanced | authors | announcements | new papers | authors | keywords | basket

Search for: Turk Search

Tip: Type new +car to find only records which do contain 'car' and may contain word 'new'... all tips and help or try advanced search

Hits 1 to 6 of 6

full details text	citation	check to select
	Turk, Ziga (2001) <b>The Reasons for the Reality Gap in CAAD</b> , Architectural Information Management [19th eCAADe Conference Proceedings / ISBN 0-9523687-8-1] Helsinki (Finland) 29-31 August 2001, pp. 156-160	<input type="checkbox"/>
	Martens, Bob and Turk, Ziga (1999) <b>Working Experiences with a Cumulative Index on CAD: "CUMINCAD"</b> , Architectural Computing from Turing to 2000 [eCAADe Conference Proceedings / ISBN 0-9523687-5-7] Liverpool (UK) 15-17 September 1999, pp. 327-333	<input type="checkbox"/>
	Turk, Z., Cerovsek, T. and Martens, B. (2001) <b>The Topics of CAAD. A Machine's Perspective</b> , Proceedings of the Ninth International Conference on ComputerAided Architectural Design Futures [ISBN 0-7923-7023-6] Eindhoven, 8-11 July 2001, pp. 547-560	<input type="checkbox"/>
	Turk, Ziga (1991) <b>Integration of Existing Programs Using Frames</b> , The Computer Integrated Future, CIB W78 Seminar September, 1991. Unnumbered : ill. includes bibliography.	<input type="checkbox"/>
	Martens, B., Turk, Z. and Cerovsek, T. (2001) <b>Digital Proceedings: Experiences regarding Creating and Using</b> , Architectural Information Management [19th eCAADe Conference Proceedings / ISBN 0-9523687-8-1] Helsinki (Finland) 29-31 August 2001, pp. 25-29	<input type="checkbox"/>
	Turk, Ziga (1993) <b>A Network Based Collaboration Framework</b> , [eCAADe Conference Proceedings] Eindhoven (The Netherlands) 11-13 November 1993	<input type="checkbox"/>

Add checked items to favorite papers

No more hits.

© CUMINCAD 2001

## 2.3 How do you retrieve interesting publications?

Having been alerted somehow about the existence and potential interest of a particular publication, how do you retrieve it.

Grade between 1=never ... and 5=very often

Free material on paper:

2.5 I contact the author, his department etc. and ask for a paper copy.

Paid for material on paper:

3.1 I go to the department or university library and fetch a copy.

3.1 I order the original publication through web, bookstore or library service.

Free material over the Internet:

2.7 I contact the author and ask for a digital copy

3.9 I download a version from the author's website

3.5 I download from a publisher's website.

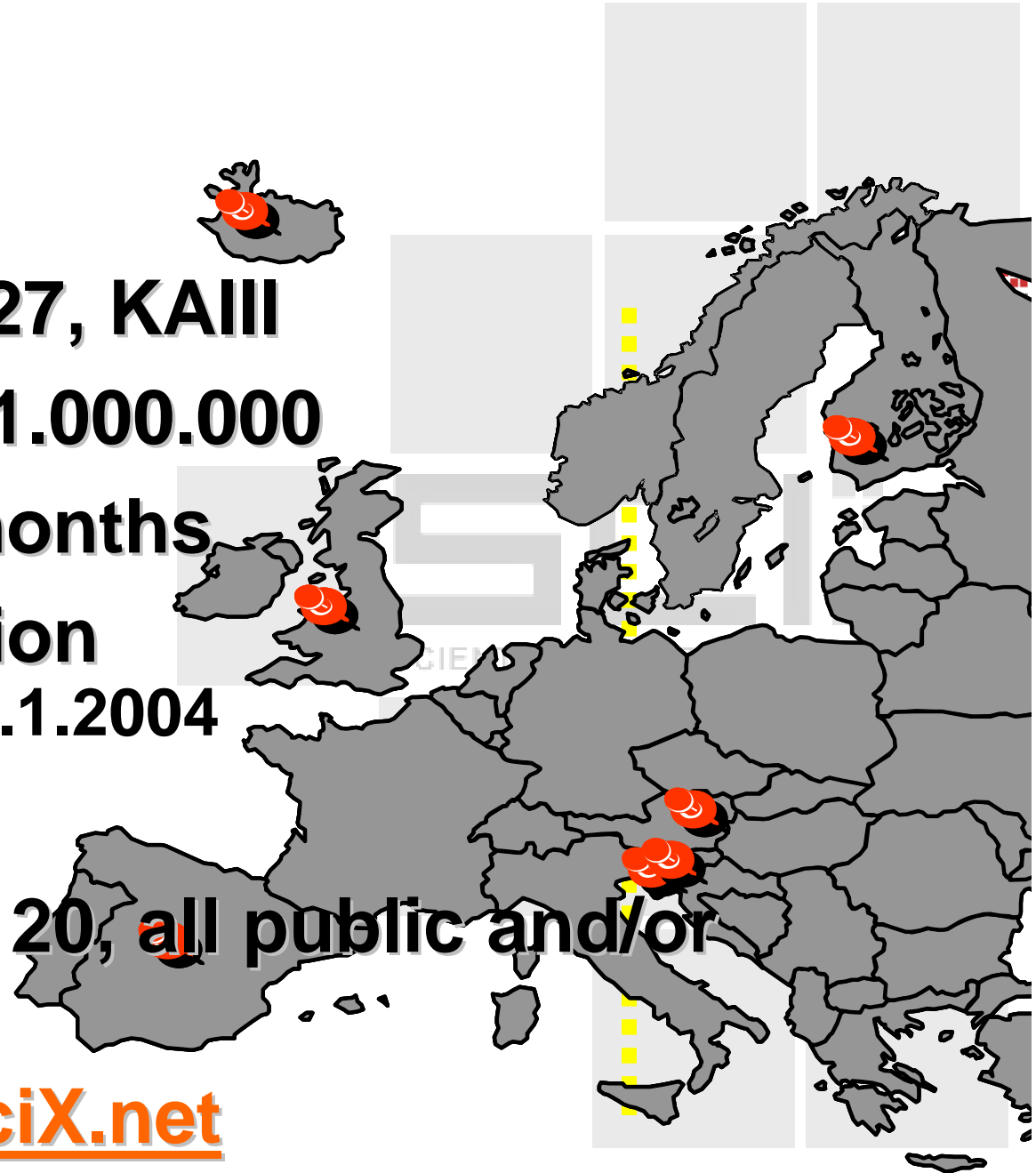
Paid for material over the Internet:

2.0 I download from a publisher's website (subscription or site licence)

1.7 I download from a publisher's website (pay per view)

# SciX project

- ❑ IST-2001-33127, KAIII
- ❑ EU funding €1.000.000
- ❑ 200 person months
- ❑ Project duration
  - ❑ 1.2.2002 - 31.1.2004
- ❑ Partners: 7
- ❑ Deliverables: 20, all public and/or open source
- ❑ Web: [www.SciX.net](http://www.SciX.net)



# Open, self organising repository for scientific information exchange

- ❑ demonstrate that the Internet enables new business models for the scientific publishing process

- ❑ as is model
- ❑ to be model

- ❑ enable the scientists

- ❑ create digital archives vs. web pages
- ❑ time- and cost-efficient access to their peers' work,
- ❑ create an on-line community of authors and readers
- ❑ disseminate scientific work to non-scientists, like engineers or architects

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# Current situation

- ❑ do research
- ❑ write paper for free
- ❑ review for free
- ❑ edit journal for free
- ❑ give away the copy-right for free
  
- ❑ buy the results of the above  
(subscribe to journal)



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# Webtop publishing

- ❑ ground up, grassroots approach
- ❑ many small publishers
  - ❑ universities
  - ❑ professional organizations
  - ❑ individuals
- ❑ result today: website
- ❑ result tomorrow: digital archive

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# Support for digital archives

## ❑ archive

- ❑ publishing and archiving platform
- ❑ workflow support: submission, review, revision, publishing, readership monitoring ...
- ❑ self management, classification

## ❑ cross archive

- ❑ metadata harvesting ... **and**
- ❑ searching
- ❑ user management
- ❑ content clustering
- ❑ full content

## ❑ non technical

- ❑ prestige, image, quality certification

# Draft architecture



readers  
authors  
librarians  
publishers



server:user communication: http, HTML

server:server communication: http, XML, SOAP, WSDL



digital library  
(e.g. CUMINAD, ITcon)

service providers



digital library  
hosting



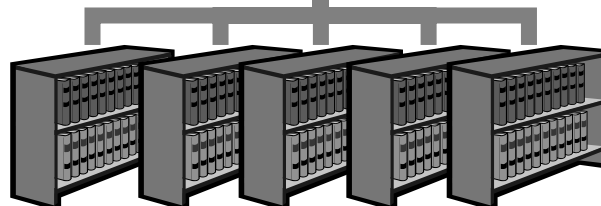
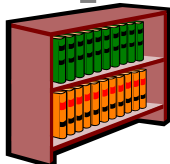
wrapper service



indexing



user  
management





# How hard can it be?

- ❑ write your own software
- ❑ buy commercial software
- ❑ get openSource software, compile, install ... **maintain**
  
- ❑ **SciX**
  - ❑ rent infrastructure
  - ❑ customize using forms on the Web
  - ❑ demo ...

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CREATE A NEW DATABASE: Setting up new database - Mozilla

File Edit View Go Bookmarks Tools Window Help


http://www.scix.net/cgi/create/NewTableForm

Go Search



# Setting up new database

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**CREATE A NEW DATABASE**

First you must select what kind of a database you need, then give it a title, tell us who will manage it, and choose a password for it. Please make sure that the email address is correct - to this address we will send a confirmation code that will be required to run the database.

**Select what kind of database you want to set up:**

**Enter short title of the database:**

**Enter name of the manager:**

**Enter correct email address of the manager:**

**Enter a password that will be used to access database management twice:**

**Snap your fingers to proceed:**

select

select

addressbook

bibliography

classifieds

collectors-records

companies

documents

faq

guestbook

links

members

news

open-archive

people

custom ...

from my data ...

like this one

tion of the predefined

lection



ail.com

Document: Done (0,438 secs)

CREATE A NEW DATABASE: Setting up your database - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.scix.net/cgi/create/NewTable?structureTemplate= Go Search



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# Setting up your database

**CREATE A NEW DATABASE**



Congratulations, your database is ready!

The main URLs to access it are:

- The main menu for your end users is at <http://www.scix.net/cgi/use/open-archive7816/Home>.
- The menu for you, the administrator is at <http://www.scix.net/cgi/use/open-archive7816/U=admin&P=aaa/AdmMenu>. Use this link to further configure this application. You can also access this menu from the **Main menu** after you **login** as admin.

**You should bookmark those links and also print this page out.**

Select options from toolbar:



Template open-archive: New Publication - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.rent-a-db.com/tt/open-archive/Add Go Search

## Template open-archive New Publication

[Show less help](#) | [Display manual](#)

**title:** A name given to the resource. *(Starts with a capital and followed by up to 100 characters.)*  
  
Typically, a Title will be a name by which the resource is formally known.

**creator:** An entity primarily responsible for making the content of the resource.  
  
Examples of a Creator include a person, an organisation, or a service. Typically, the name of a Creator should be used to indicate the entity.

**subject:** The topic of the content of the resource.  
  
Typically, a Subject will be expressed as keywords, key phrases or classification codes that describe a topic of the resource. Recommended best practice is to select a value from a controlled vocabulary or formal classification scheme.

**description:** An account of the content of the resource.  
  
Typically, a Subject will be expressed as keywords, key phrases or classification codes that describe a topic of the resource. Recommended best practice is to select a value from a controlled vocabulary or

Document: Done (0.204 secs)

# Conclusions

- ❑ **SciX will use WSDL, XML and OAI standards for inter-archive data exchange**
- ❑ **SciX will trivialize the creation and management of open archives**
- ❑ **SciX is identifying needs for other kinds of cross archive collaboration**
- ❑ **psychological, social and economic problems remain**
  - ❑ **a network of small, independent publishers and content providers would make individual effort like ours stronger**

start

SciX project

Goals

Webtop publ.

SciX and OAI

end

OAI Workshop – Geneva 2002

# The end

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