

# **Digital Libraries, WWW, and Educational Technology: Lessons Learned**

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# Acknowledgements

## Sponsors and Partners

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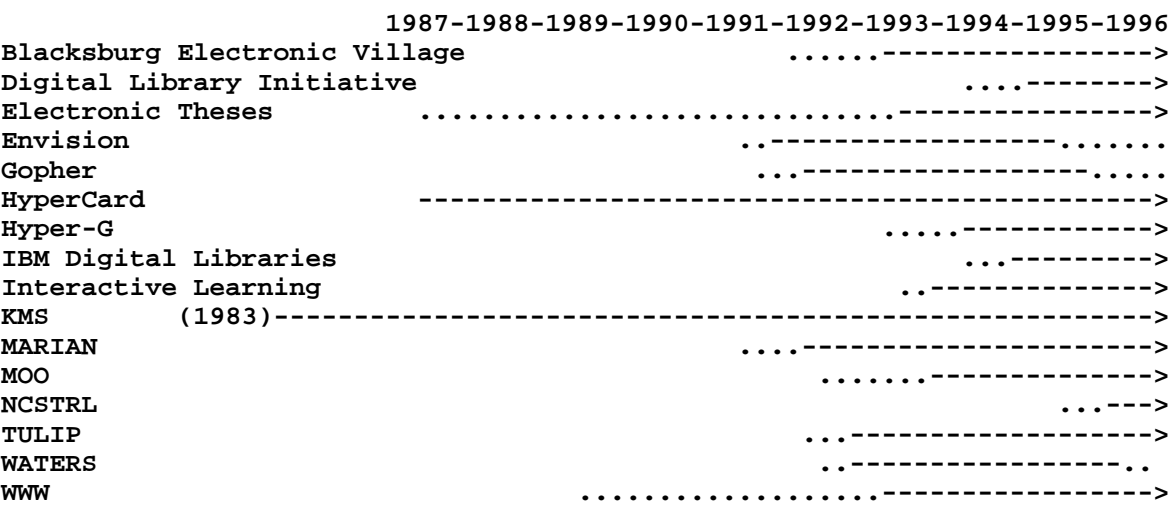
## Co-PIs, Students, Staff

## Projects

- \* Envision (NSF IRI-9116991)
- \* Interactive Learning with a DL  
(NSF CDA 9312611)
- \* MARIAN
- \* NCSTRL (ARPA, NSF)
- \* SUCCEED (NSF EID-9109853)
- \* TULIP
- \* WATERS (NSF CDA-9308259)



# Introduction



**Figure 1:** Timeline of Recent Information and Digital Library Systems



# Digital Library Projects

## Introduction

- \* SIGIR DL Page

[http://info.sigir.acm.org/sigir/digital\\_lib.html](http://info.sigir.acm.org/sigir/digital_lib.html)

- \* DL'97: Philadelphia, July 23-26  
(before ACM SIGIR'97)

- \* Tutorial

<http://ei.cs.vt.edu/~fox/CIKM95tut/>

- \* D-Lib

<http://www.dlib.org/>

- \* Working Groups

<http://www.dlib.org/groups.html>

- \* Title Index

<http://www.dlib.org/title-index.html>

- \* VT Projects

<http://scholar.lib.vt.edu/digilib/>

- \* IBM Digital Libraries

<http://204.146.47.71:80/is/dig-lib/>

## TULIP

<http://www.elsevier.nl/info/projects/tulip.html>

## BEV History

<http://history.bev.net/bevhist/>

- \* Timeline



# Digital Library Projects cont'd

## Electronic Theses and Dissertations

<http://etd.vt.edu/etd/>

- \* Submission
- \* Library page



## Envision

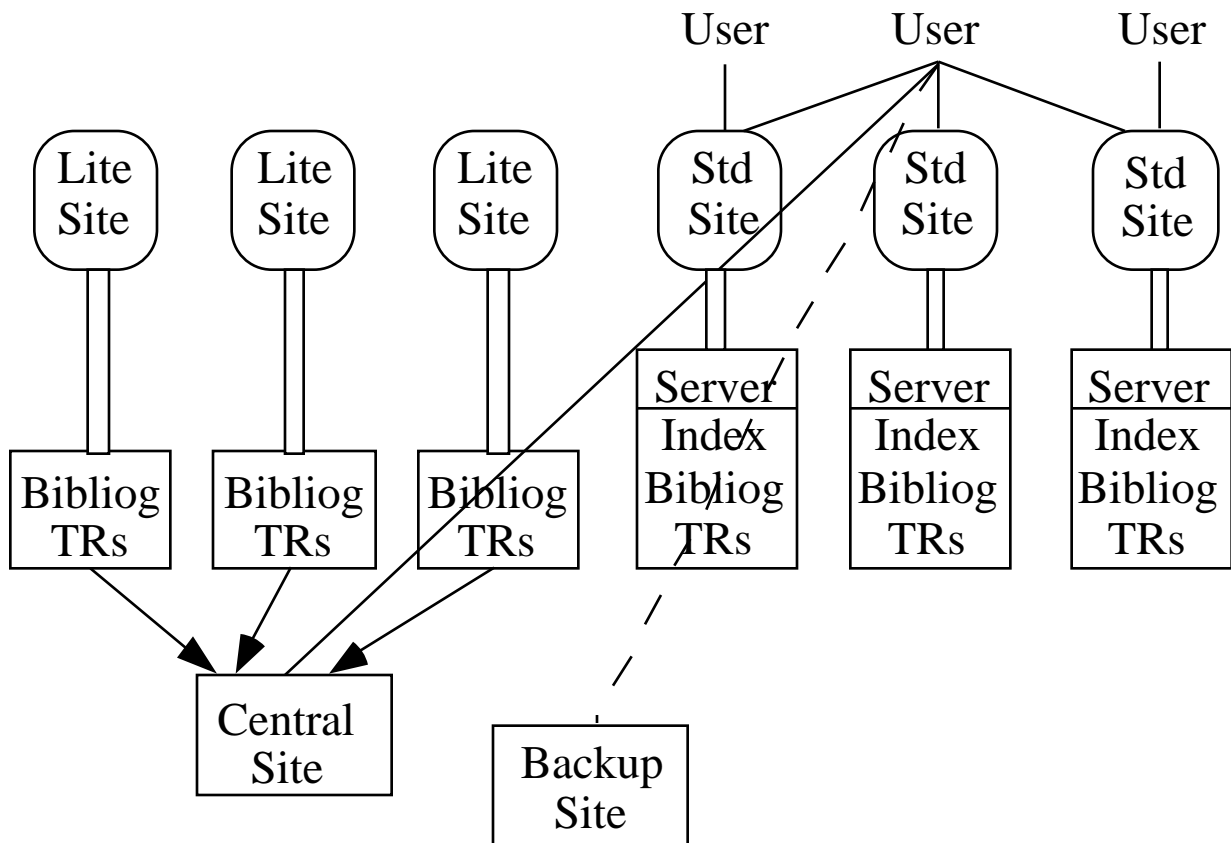
- \* Envision results screens
- \* Digital libraries for CS  
<http://fox.cs.vt.edu/DLCS.html>
- \* Dienst <http://researchsmp2.cc.vt.edu:8090/>
  - \* Search
  - \* Results
  - \* Doc

## NCSTR

<http://www.ncstrl.org/>

- \* Browse
  - \* Sites
  - \* Years
- \* Search
  - \* Search
  - \* Results
  - \* Doc





**Figure 2: NCSTRL Architecture**



# WWW and Education

## EI Project

- \* Project management



## EI Tools

- \* SWAN
- \* Virtual Q&A
- \* QUIZIT

## EI Courses

- \* CS1604
  - Outline
  - Map
- \* CS3604
  - Debates
- \* CS4624
  - Outline
  - Figures with captions
  - Projects
  - Quiz (koofer)
- \* CS5604
  - Course Format (PSI)



# WWW and Education cont'd

## Usage

### + Sources of variation

- \* Daily schedule, Semester schedule
- \* Local and remote users
- \* Student work habits



### + Excel graphs (18 months)

- \* Accesses
- \* Bytes



### + 18 months

- \* All
- \* Remote
- \* Local
- \* History
- \* 1206: 96
- \* 1604
- \* 4624
  - 95
  - 96
- \* 5604





# WWW and Education cont'd

## Usage cont'd

+ **95/4/30**

- \* All



- \* 1604

- \* 4624

+ **95/12/03**

- \* All

- \* Remote

- \* Local



- \* History

- \* 1604

- \* 5604

+ **96/2/18**

- \* All

- \* Remote

- \* Local



- \* History

# WWW and Education cont'd

## Usage cont'd

+ **96/4/28**

- \* All
- \* Remote
- \* Local
- \* History
- \* 1206
- \* 1604
- \* 4624



+ **96/5/26**

- \* All
- \* Remote
- \* Local



# Conclusions

- \* **DLs** = integral part of educational technology support
- \* **Join projects:**
  - \* electronic theses and dissertations
  - \* CS technical reports
  - \* CS literature access
- \* **Use our courseware and add to it**
- \* **Work toward “Open Digital Library”**