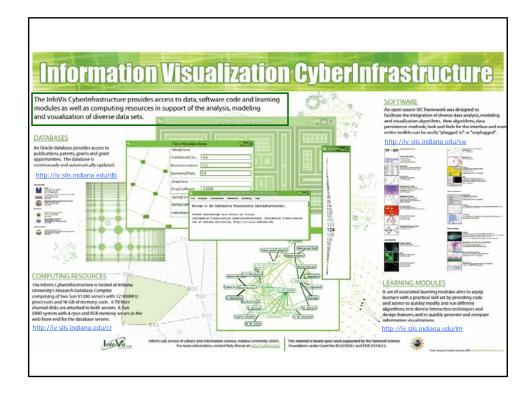
InfoVis Cyberinfrastructure

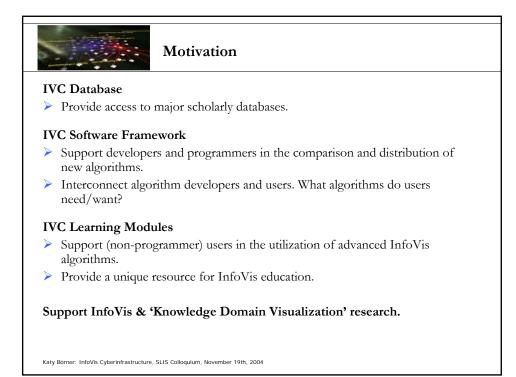


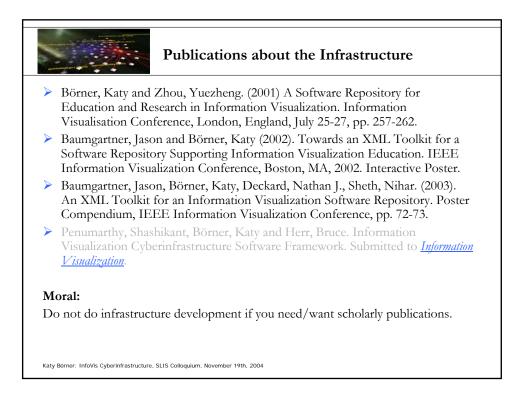
Katy Börner School of Library and Information Science INDIANA UNIVERSITY B L O O M I N G T O N

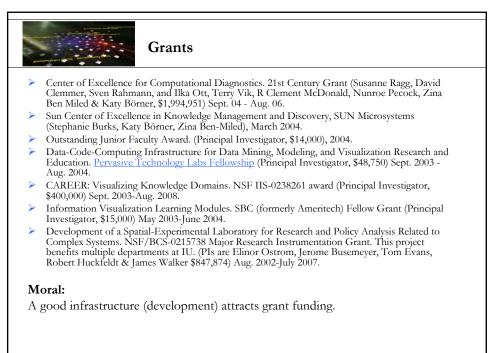
katy@indiana.edu

SLIS Colloquium, November 19th, 2004

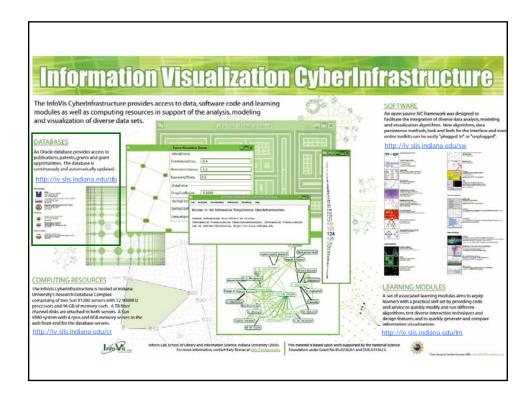


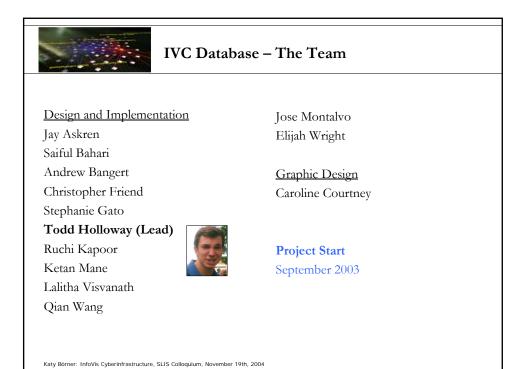


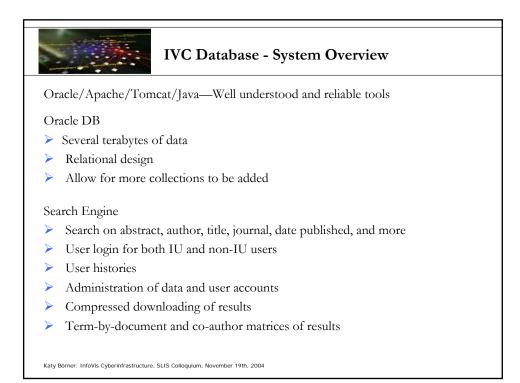


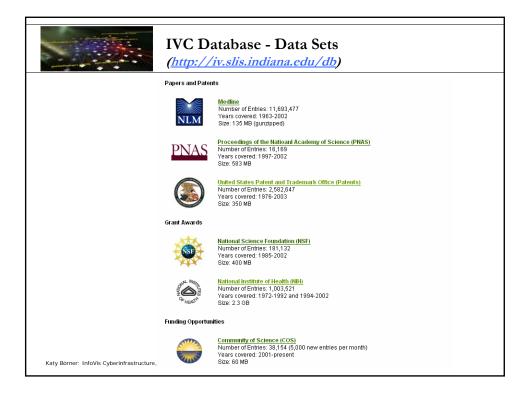


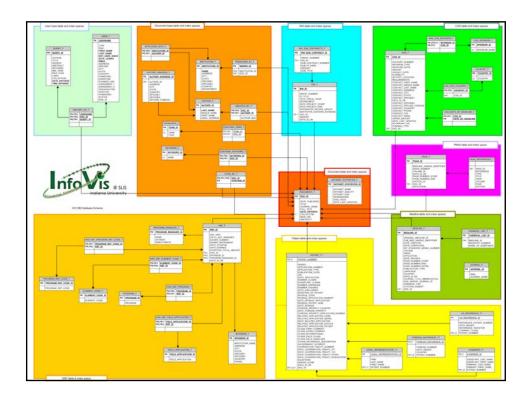
Katy Börner: InfoVis Cyberinfrastructure, SLIS Colloquium, November 19th, 2004

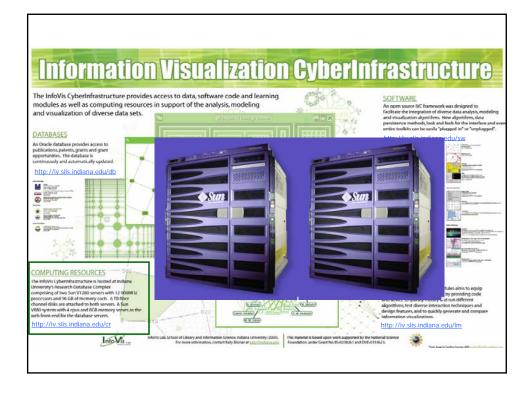


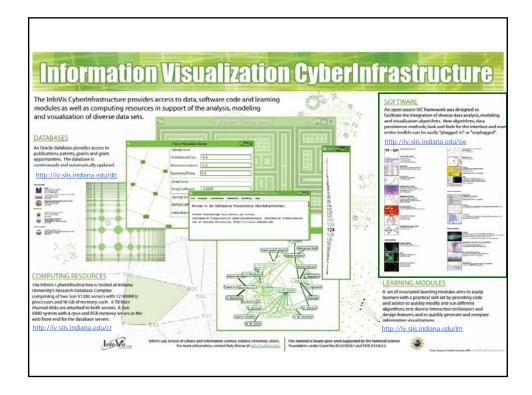


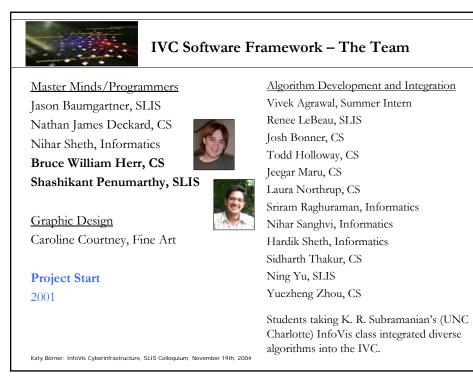


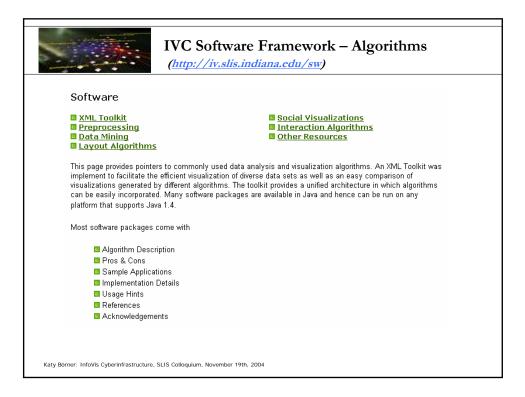


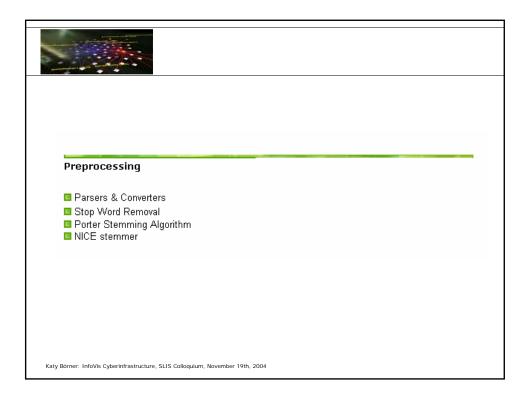


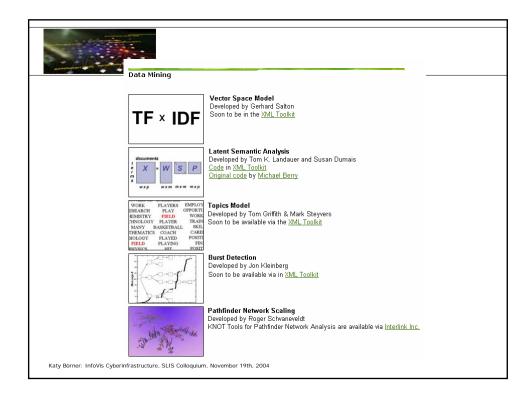


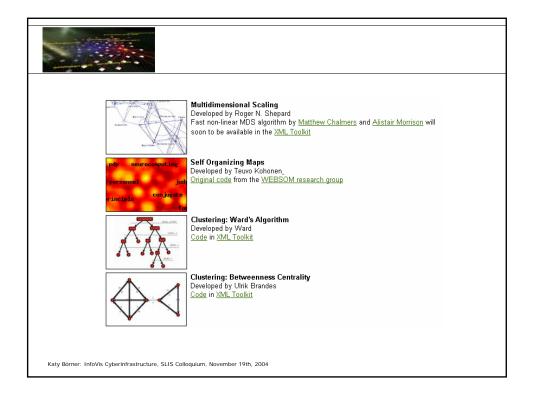


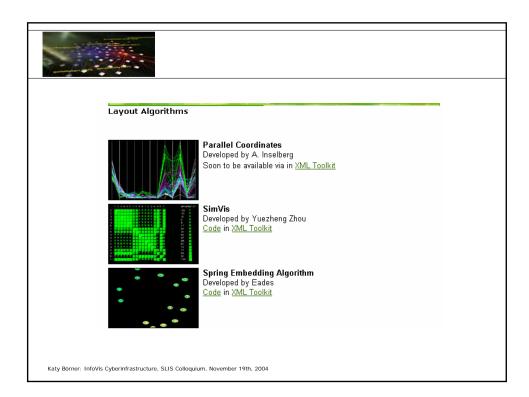


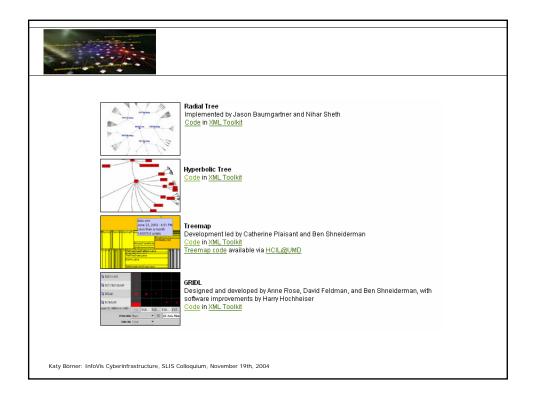


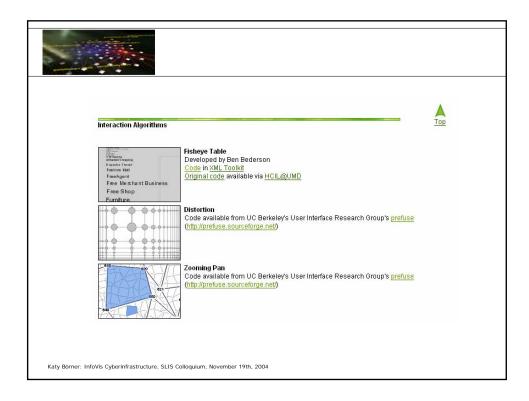






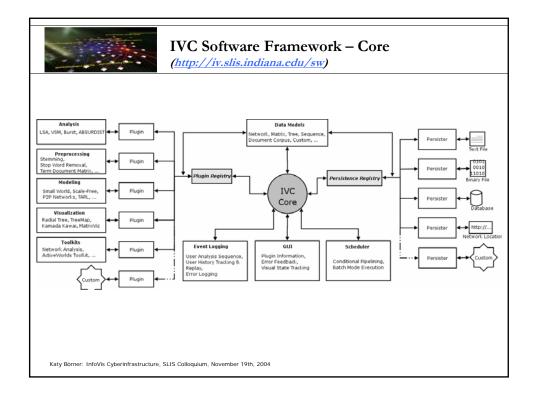


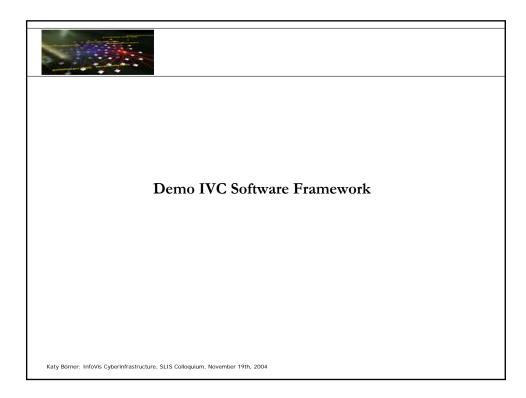


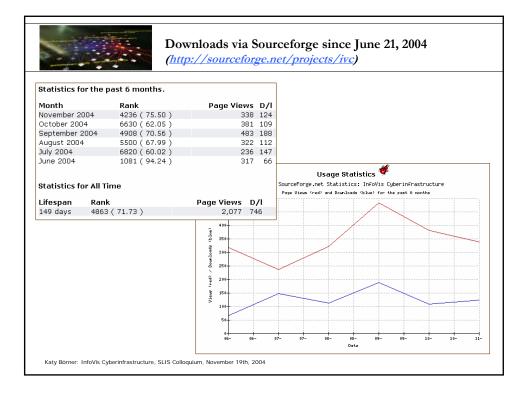




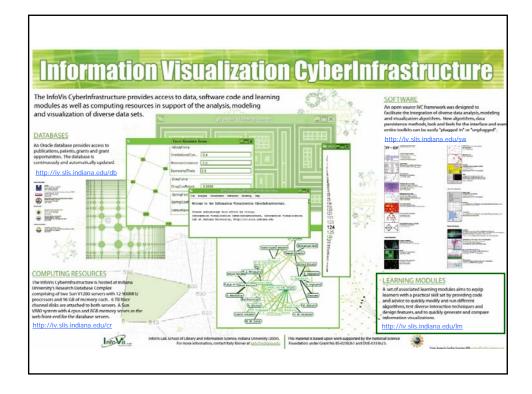
		Open Source Toolkits		
		Internal Structure	NFIA's InfoVis Toolkit by Jean-Daniel Fekete Interactive Graphics Toolkit written in Java to ease the development of Information Visualization applications and components. <i>Reference:</i> Jean-Daniel Fekete, <u>The InfoVis Toolkit</u> , Research Report RR-4818, INRIA Futurs, May 2003.	
		d'Ioad Piccelo learn team play hcil umd	University of Maryland's <u>Piccolo Toolkit</u> by Jesse Grosjean and <u>Ben Bederson</u> at the <u>HOL®UMD</u> Piccolo is an toolkit for the creation of robust graphical applications with features such as zooming and multiple representation. It is based on the Java2D and available as OSI Certified Open Source Software.	
		AT&T Labs	AT&T's <u>GraphViz</u> by Stephen North, Emden Gansner, John Ellson et al. Set of graph drawing tools for Unix or MS-Windows (win32), including a web service interface (webdot). Source code and binary executables for common platforms are available.	
		JUNG Java Universal Network/Graph Framework	UC Invine's Java Universal Network/Graph Framework (JUNG) (<u>http://jung.sourceforge.net</u>) by Scott White, Joshua O'Madadhain, Danyel Fisher and Yan-Biao Boey Java-based open-source software library designed to support the modeling, analysis, and visualization of data that can be represented as graphs. It comprises a wealth of algorithms developed in the fields of social network analysis, information visualization, knowledge discovery and data mining.	
	Katy Börner: InfoVis	CATA The space The s	UC Berkeley's User Interface Research Group's prefitise (http://prefixes.sourceforge.net/) by jeffrey Heer and Alan Newberger. Advised by Stuart K. Card and James A. Landay. Interface toolkit for building highly interactive visualizations of structured and unstructured data. Reference: prefixe: a toolkit for interactive information visualization. Jeffrey Heer, Stuart K. Card and James A. Landay. Submitted paper draft, April 2004.	

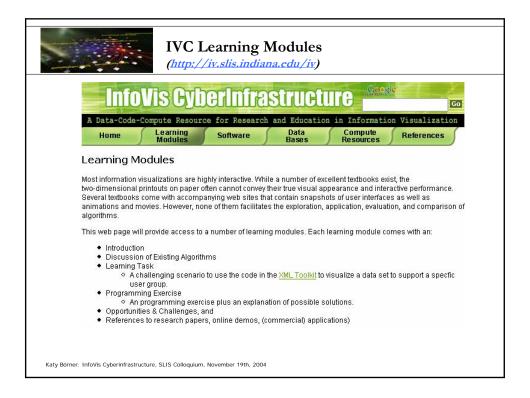


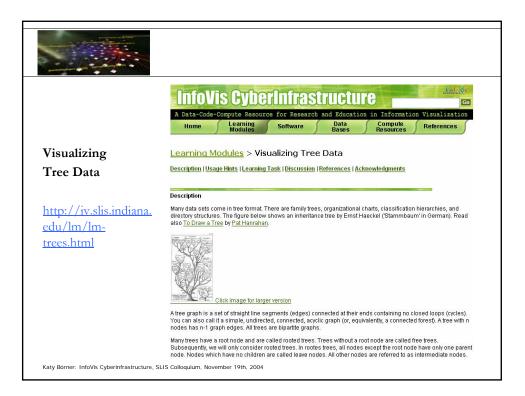


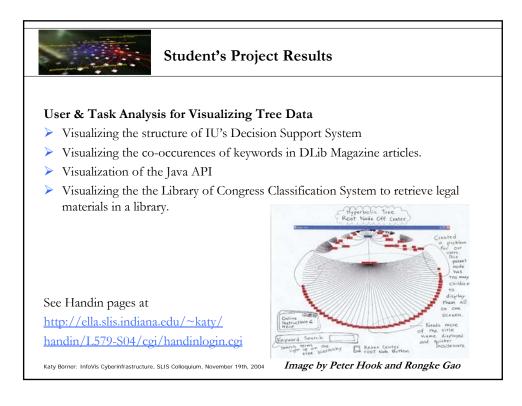


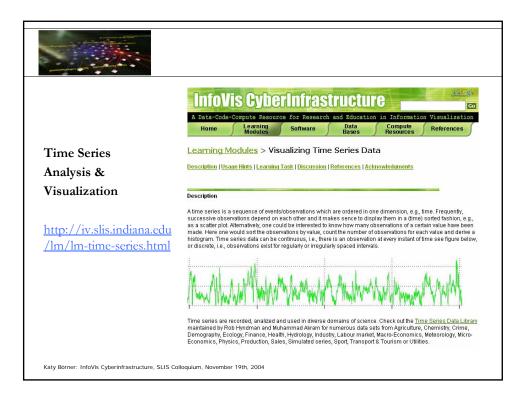


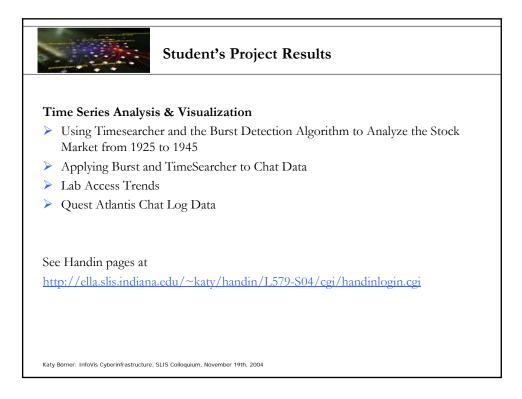


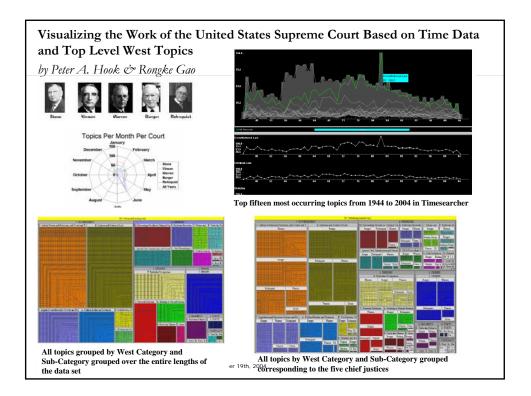


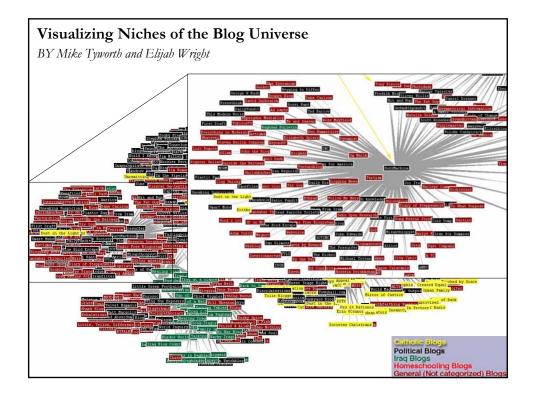


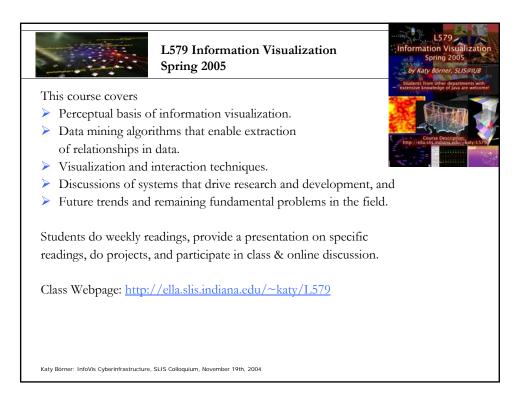


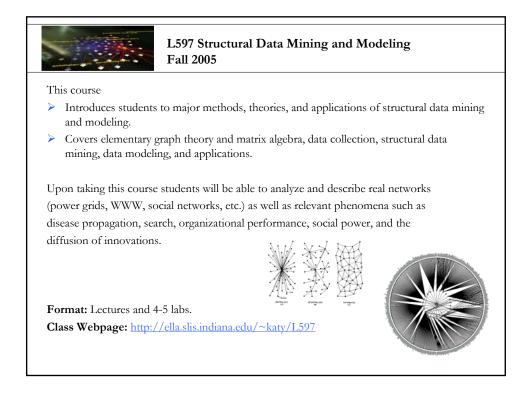














Future Work

IVC Database

- Create tables/upload Citeseer, 110 year Physical Review journals dataset, etc.
- Optimize online interface and make it available to other researchers.
- Create connections to R and other packages for large scale (network) data analysis.
- Document, document, document.

IVC Software Framework

- Release IVC core as 'alpha'.
- Integrate a lot more algorithms.

IVC Learning Modules

- > Write new learning modules as new algorithms become available.
- User test learning modules.

Outreach

There will be a <u>Data Analysis, Modeling and Visualization</u> Tutorial @ <u>Electronic Imaging</u>, San Jose, CA, Jan 16th, 2005 which uses the IVC infrastructure.

Do RESEARCH using this infrastructure!

Katy Börner: InfoVis Cyberinfrastructure, SLIS Colloquium, November 19th, 2004

