

# Indiana CTSI Collaboration Tools

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## What this talk is about...

- Collaboration background
- CTSA collaboration initiatives
- Indiana CTSI HUB Applications
- Future trends



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# Collaboration Background

- The intellectual capital to successfully undertake scholarly research is no longer found at a single institution, or a single country.
- Even within institutions and departments, collaborative research is increasingly becoming the norm.
- The resources necessary for competitive research are no longer found in an isolated research lab.
- Distributed analytical and computational facilities and online datasets are changing the research resource landscape

## Collaboration Trends

- Team Science is a higher risk, higher reward approach to research.
- Types of Collaborations include:
  - Social Networking
  - Knowledge Networking
  - Resource Networking
- With the current suite of Web 2.0 tools, it inevitably involves virtual collaboration and the creation of virtual organizations.
  - But lets not forget 'traditional' collaboration tools of telephones and conference calls, email, and teleconferencing.

# Collaboration Trends

Persistence beyond face to face relationships requires:

- Motivations and Rewards
- Trust
- Dealing with cultural differences
- Governance and Management
- Shared Infrastructures and resource management
- Metrics and Assessment
- Sustainability – financial, intellectual, infrastructure

## Types of Research Collaborations

- Highly distributed communities of independent scholars who share educational content and tools.
- Institutional collaborations to accelerate research workflows and move them online.
- Distributed research projects that have moved their analytical workflow online to accelerate research.

# CTSA Collaboration Initiatives

Strategic Goal Committee 3: enhancing Consortium-Wide Collaborations

- Collaborative Opportunities for Research Participation

Research Networking

- VIVO ([vivoweb.org](http://vivoweb.org))
- Eagle-I ([eagle-i.org](http://eagle-i.org))
- Direct2Experts ([direct2experts.org](http://direct2experts.org))

Individual CTSA Institutions

- Profiles ([catalyst.harvard.edu](http://catalyst.harvard.edu))
- Community Academic Profiles ([med.stanford.edu](http://med.stanford.edu))
- Loki ([www.icts.uiowa.edu/loki](http://www.icts.uiowa.edu/loki))
- Digital Vitae ([di.dental.pitt.edu/orc](http://di.dental.pitt.edu/orc))



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## The Indiana CTSA HUB

A modular research collaboration portal based on *Joomla!* that excels at data sharing, modeling and simulations, multimedia content, community participation.

Originally created as nanoHUB at Purdue.



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# Indiana CTSI HUB Foundations

- Modular 'Model View Controller' Architecture
- Built in collaboration tools for sharing content
- HUBzero tools for online collaborative modeling and simulation
- Over 6800 Joomla extensions to add functionality

We added...

- Federated Identity support for authentication
- Ontology-based tagging

# Indiana CTSI HUB Applications

- Grant Management System (Open Journal System)
- Clinical Trials Management
- Online Cores (cf. Eagle-I)
- Small Group Collaboration/File Sharing (Alfresco Share)
- Data Collection and Management (REDCap)
- Matchmaking for licensing to industry (i2iconnect)
- Volunteer Recruitment for Clinical Trials (INResearch)
- Email Newsletter

# Alfresco Share

500 Users and 5 GB of documents. <https://alfresco.uits.iu.edu>

Alfresco Share My Dashboard My Profile Sites People

CHEP Site Help Tutorial Logout Search This Site

Site Dashboard Wiki Blog Document Library  
Calendar Links Discussions Members

Documents New Folder Upload Selected Items... Hide Breadcrumb RSS Feed

Library Documents

9-22-2010 CAC Meeting  
Academic Working Group  
ARRA ACES Project  
CCC  
CEB  
CHEP Service Center  
CHEP Work plans  
Communications  
Enduring Action Group  
Logos  
March 5th CAC Meeting  
Reports

9-22-2010 CAC Meeting  
Modified on: Wed 15 Sep 2010 08:00:59  
Modified by: Emily Hardwick, MPH, CCRP  
Description: (None)  
Tags: (None)

Academic Working Group  
Modified on: Mon 26 Jul 2010 12:54:29  
Modified by: Emily Hardwick, MPH, CCRP  
Description: (None)  
Tags: (None)

Tags



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# REDCap

175 Users and 110 Projects. <https://redcap.uits.iu.edu>

REDCap

Logged in as site\_admin

My Projects  
Project Home  
Project Setup

Data Collection  
Demographics  
Baseline Data  
Month 1 Data  
Month 2 Data  
Month 3 Data  
Completion Data

Applications  
Calendar  
Data Export Tool  
Data Import Tool  
Data Comparison Tool  
Logging  
File Repository  
Graphical Data View & Stats  
Report Builder

Reports  
1) test  
2) test123  
3) PSJ  
4) test report  
5) Diabetes  
6) Sample  
7) testingsmh  
8) test  
9) canada  
10) 1234  
11) Bubba's Report  
12) trial  
13) Asthma  
14) test  
15) delete this report

Vanderbilt Medical Center  
Vanderbilt University  
Vanderbilt Institute for Clinical and Translational Research

REDCap Demo Database

Project status: Production

Quick Tasks

Export data: Export your data from REDCap to open or view in Excel or various stats packages.

Create a report: Build custom reports for quick views of your data, and export reports to Excel/CSV.

Data Access Groups: Create groups of users to limit user access to certain records/responses, in which only users within a given Data Access Group can access records created by users within that group.

Project Dashboard

The tables below provide general dashboard information, such as a list of all users with access to this project, general project statistics, and upcoming calendar events (if any).

Current Users

User	Expires
site_admin (Joe User)	never

Project Statistics

Records in project	81
Data exports	259
Logged events	2537
Most recent activity	12:08pm 02/07/2011
Space usage for docs	16.37 MB
Project status	Production

Upcoming Calendar Events (next 7 days)

Time	Date	Description
		No upcoming events



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# i2iconnect

912 Listings and 542 Users. <http://i2iconnect.org>

**i2i Connect**  
Bridging Inventors and Industry

LOGIN JOIN

HOME  
ABOUT  
SEARCH  
CONTACTS  
ADVANCED SEARCH  
BROWSE BY SPECIALTY  
BROWSE BY DISEASE  
FEEDBACK

## Find Your Biomedical Industry Partner

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**Healthcare IT Categories**

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i2iConnect finds you accurate matches by searching our database of information about what potential industry partners are actually looking for

Latest Contacts	Top Rated Contacts	Most Reviewed Contacts
Andrew Hooper	AJ Richardson (5.0) ★★★★★	AJ Richardson (3)
Doug Bodde	Anand Sampath (5.0) ★★★★★	John Barrett (1)
Doug Bodde	Jeff Hooper (5.0) ★★★★★	John Smith (1)
Jinhu	John Barrett (5.0) ★★★★★	Ronald Pendergast (1)
Boyd W. Sturdevant, Jr.	Mr. Brandon Erkes (5.0) ★★★★★	Thomas Cherry (2)



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## Future Directions

- Profile Integration with Faculty Profiles with VIVO, Faculty Annual Reports (FAR) at IU Bloomington, Faculty Profile System (FPS) at IU School of Medicine, Indiana Database of University Research Expertise (INDURE).
- Creation of middleware to both consume and expose Linked Open Data (by August, 2011).
- CTSA2Community website ([ctsa2community.org](http://ctsa2community.org)) as a repository of best practices for community engaged research.



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# Thank you.

Questions?

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