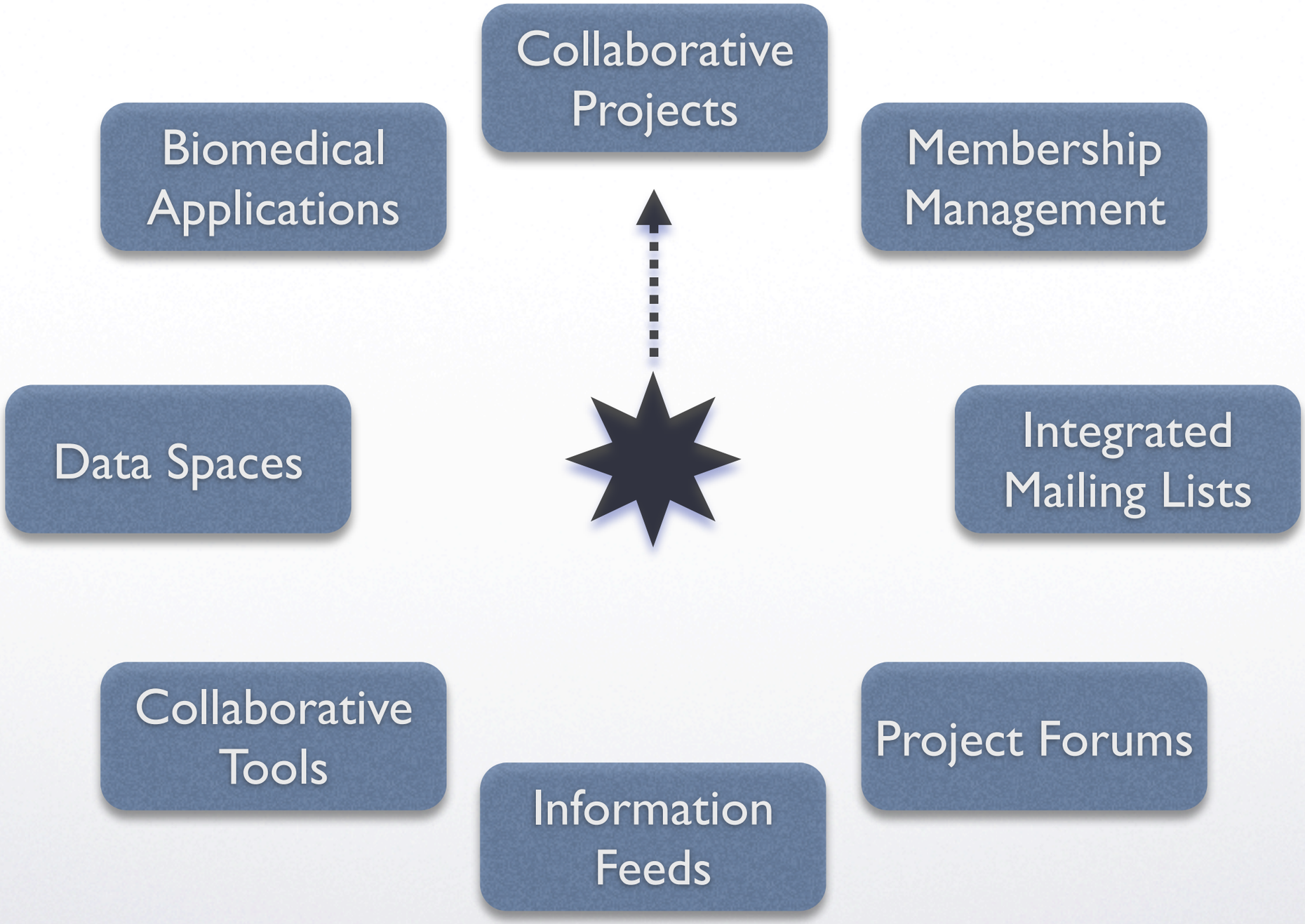
# BIRN Portal

## Collaborative Environment

# Collaborative Workspace



# Collaborative Projects

BIRN Portal

BIRN PORTAL — BIOMEDICAL INFORMATICS RESEARCH NETWORK

Logout
Welcome, Jeffrey Grethe

Collaboration | Layout | Resources | Biomedical Tools | Data Management | Help

My Space | My Projects | Projects | Create Project | Forums | Email | Lists | RSS Reader | RSS Manager | Blogs | Profiles | Images | Contacts | Chat

**Navigator**

**Project Info:**

EAE
7

**Membership:**

Member
Jul 15, 2005:

**My Projects:**

| | | |
|---|---|---|
| Portal Test 2 | 8 | 07-04-2005 |
| Computational Informatics | 4 | 02-11-2005 |
| fBIRN IT Working Group Documents | 28 | 04-07-2005 |
| EAE | 7 | 07-15-2005 |
| NAMIC | 84 | 10-22-2004 |
| Dev Project | 2 | 11-23-2004 |
| Portal Test | 2 | 06-16-2005 |
| Allen Brain Atlas | 3 | 06-22-2006 |
| Data Grid Development | 4 | 10-05-2004 |
| fBIRN Neuroimaging Calibration Study, Phase I | 17 | 03-10-2005 |

**Project Detail**

## EAE

**Project Name:** *EAE*

**Public Info:** *The EAE model taskforce will tackle the issue of how to best capitalize on the advantages of the BIRN collaborative infrastructure to gain a better understanding and more complete model of human multiple sclerosis in the mouse.*

**Private Description:** *The EAE model taskforce will tackle the issue of how to best capitalize on the advantages of the BIRN collaborative infrastructure to gain a better understanding and more complete model of human multiple sclerosis in the mouse. This tool will be used to facilitate data acquisition and processing between multiple sites in mouse BIRN.*

**Accessible:** *Private*

**SRB Group Name:** *mouse_EAE__0015*

**Founded:** *07-15-2005 10:46:20*

**Number of Members:** *7*

**Contact:** *Jyl Boline (jboline@loni.ucla.edu)*

**Project Status:** *Active*

**My Membership:**

I joined on **Jul 15, 2005**, I am a(n) **Active Member**

Drop

08/31/06 : Transferred to new portal

**Activities:**

*No Project Activities*

**Memberships:**

| Username | Role | First Joined | Emailalert |
|---|---|---|---|
| clin | | 07-15-2005 | lin@rmy.emory.edu |
| dpreuss | | 07-15-2005 | donp@nih.gov |

**Project Slideshow**

*No Images Available.*

**Project Lists**

Select List: Go

*There are no list entries or list*

**Tasks to do**

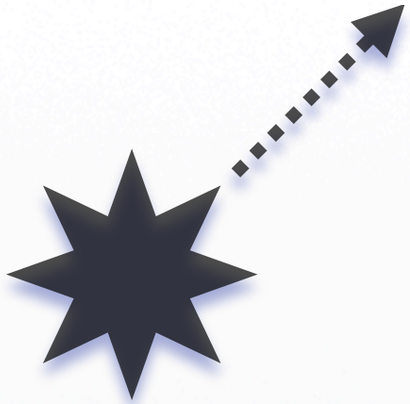
*No tasks available.*

# Collaborative Workspace

Collaborative Projects

Biomedical Applications

Membership Management



Data Spaces

Integrated Mailing Lists

Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

BIRN Portal

**Project Info:**

**BIRNLex** [ SRB Project Folders ]
5

**Membership:**

**Member**
Feb 19, 2007:

**My Projects:**

| | | |
|---|---|---|
| Portal Test 2 | 2 | 07-04-2005 |
| Analysis, Visualization and Interpretation | 8 | 10-29-2004 |
| Computational Informatics | 4 | 02-11-2005 |
| fBIRN IT Working Group Documents | 29 | 04-07-2005 |
| NAMIC | 85 | 10-22-2004 |
| Dev Project | 4 | 11-23-2004 |
| Portal Test | 2 | 06-16-2005 |
| Allen Brain Atlas | 5 | 06-22-2006 |
| BIRN_Public_Data | 9 | 07-21-2005 |
| Data Grid Development | 4 | 10-05-2004 |
| fBIRN Neuroimaging Calibration Study, Phase I | 20 | 03-10-2005 |
| Stock image collection of BIRN | 4 | 01-24- |

## BIRNLex [ SRB Project Folders ]

**Project Name:** *BIRNLex*
**Public Info:** *Development of a lexicon for annotation of BIRN data and workflows*
**Private Description:**
**Accessible:** *Public*
**SRB Group Name:** *BIRNLex__0052*
**Founded:** *01-24-2007 10:06:22*
**Number of Members:** *5*
**Contact:** *MaryAnn Martone (mmartone@ucsd.edu)*
**Project Status:** *Active*

**My Membership:**

I joined on **Feb 19, 2007**, I am a(n) **Active Member**

Drop

02/19/07: Jeffrey Grethe accepts membership
02/19/07: jegrethe joins project

**Activities:**

| ID | Description | Project | Type | Initiated | Status | Action |
|---|---|---|---|---|---|---|
| 160 | **MaryAnn Martone** invites **Jeffrey Grethe** to 'BIRNLex' Project | BIRNLex | Membership Invitation | 02-16-2007 | Active | Revoke |
| 159 | **MaryAnn Martone** invites **Christine Fennema Notestine** to 'BIRNLex' Project | BIRNLex | Membership Invitation | 02-16-2007 | Active | Revoke |
| 163 | **MaryAnn Martone** invites **Christine Fennema Notestine** to 'BIRNLex' Project | BIRNLex | Membership Invitation | 02-16-2007 | Active | Revoke |

**Memberships:**

| Username | Role | First Joined | Emailalert |
|---|---|---|---|
| Amarnath Gupta | | 02-17-2007 | gupta@sdsc.edu |
| Jeffrey Grethe | | 02-19-2007 | jgrethe@ncmir.ucsd.edu |
| Jessica Turner | | 02-16-2007 | turnerj@uci.edu |
| MaryAnn Martone | | 01-24-2007 | mmartone@ucsd.edu |
| William Bug | | 02-16-2007 | William.Bug@drexelmed.edu |

*No Images Available.*

**Project Lists**

Select List: Go

*There are no list entries or list*

**Tasks to do**

*No tasks available.*

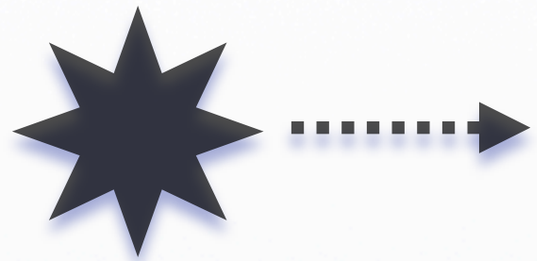
# Collaborative Workspace

Collaborative Projects

Biomedical Applications

Membership Management

Data Spaces



Integrated Mailing Lists

Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

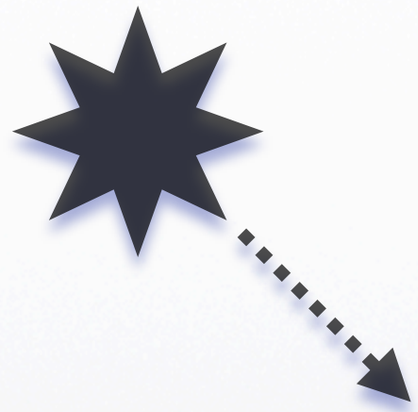
Collaborative Projects

Biomedical Applications

Membership Management

Data Spaces

Integrated Mailing Lists



Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

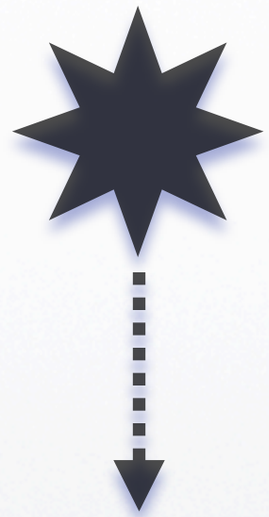
Collaborative Projects

Biomedical Applications

Membership Management

Data Spaces

Integrated Mailing Lists



Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

BIRN Portal

BIRN PORTAL — BIOMEDICAL INFORMATICS RESEARCH NETWORK

Logout
Welcome, Jeffrey Grethe

Collaboration | Layout | Resources | Biomedical Tools | Data Management | Help

My Space | My Projects | Projects | Create Project | Forums | Email | Lists | RSS Reader | RSS Manager | Blogs | Profiles | Images | Contacts | Chat

**Navigator**

**Project Info:**

**fBIRN Neuroimaging Calibration Study, Phase I**
17

**Membership:**

**Member**
Mar 10, 2005:

**My Projects:**

| | | |
|---|---|---|
| Portal Test 2 | 8 | 07-04-2005 |
| Computational Informatics | 4 | 02-11-2005 |
| fBIRN IT Working Group Documents | 28 | 04-07-2005 |
| EAE | 7 | 07-15-2005 |
| NAMIC | 84 | 10-22-2004 |
| Dev Project | 2 | 11-23-2004 |
| Portal Test | 2 | 06-16-2005 |
| Allen Brain Atlas | 3 | 06-22-2006 |
| Data Grid Development | 4 | 10-05-2004 |
| fBIRN Neuroimaging | 17 | 03-10- |

**Blog Manager**

September 11, 2006

**Function BIRN Phase I Traveling Subjects Dataset Available**

ems in employing fMRI in multi-institutional studies. Multi-site functional imaging data include the same variability sources as single-site data (e.g., subject and population variability), as well as new sources of variability, such as differences in scanner equipment and methods. fMRI instrumentation and acquisition protocols vary greatly across imaging centers, and methods for data analysis and quantification vary similarly. Even more problematic are the myriad of psychological challenge tasks during which activations are elicited. Finally, the network, storage, and database infrastructure necessary to share and analyze collabora-tively the multi-terabyte data sets resulting from multi-institutional fMRI studies do not exist. The FBIRN accomplished its primary aim by developing a Phase I protocol for use at all sites and recruiting subjects who traveled to all sites for a standardized imaging protocol in the summer of 2003. Previous multicenter MRI studies have imaged the same subjects at different sites but have focused on structural MRI and have not included fMRI. The purpose of Phase I was to assess intersite differences and decrease them by standardizing the protocol, when possible, while introducing methods for correcting for remaining intersite differences. Since there is no obvious way to calibrate functional imaging signals from cognitive tasks, a simultaneous motor, visual, and auditory (sensorimotor) task was developed and tested, along with a breath-holding task, to measure vascular response, as minimally cognitive probes. Development of these protocols was a multi-site collaborative effort; imaging data were collected in parallel on multiple versions and the final designs followed from the most robust results, validation across sites or modalities (e.g., ERP testing of the initial auditory task), and finally common consensus on best practices. Following multi-site testing and refinement of these paradigms, five volunteer subjects recruited from the community traveled to all sites and spent a minimum of 2 days at each site. The Phase I subject pool consisted of five right-handed healthy male subjects who ranged in age from 20 to 29 years with no history of psychiatric or neurological illness, and with normal hearing in both ears. These subjects traveled to each FBIRN site and were tested twice at each site on successive days. Subjects were scanned in each MRI scanner at least twice using the calibration and cognitive protocols to produce a dataset to measure intersite, intersubject, and intersession variance. All subjects returned to their original site for a final scan at the end of the study. Three subjects visited Stanford twice and two visited the University of Minnesota twice, once at the beginning of the study and then again at the conclusion of the study, after visiting all other FBIRN sites. A standard FBIRN protocol was used for image acquisition with controlled variation at different sites to evaluate differences due to k-space trajectories and field strengths. This multi-site study is the first of its kind and provides essential data for beginning multi-site imaging studies....

Continue reading 'Function BIRN Phase I Traveling Subjects Dataset Available'

Posted by Jeffrey Grethe at 1:54 PM | Comments (0)

Blogs Menu

Home | New Blog | Summary | Detailed

Current Blog

**Actions:** Add Entries | Edit Blog

**Name:** fBIRN Phase I Dataset RSS
**Description:** Public news feed for fBIRN dataset
**Created:** September 11, 2006

**Owner:** 'fBIRN Neuroimaging Calibration Study, Phase I' Project
**Type:** Project
**Creator:** Jeffrey Grethe

Available Blogs

**Browse:** User | Project | All Projects | Public

Category: Public Readable

- Blog for Characterizing Transgenic Mouse Models of Human Neurodisorders (1)
- fBIRN Phase I Dataset (1)

Recent Comments

1 Day | 1 Week | 2 Weeks | 1 Month

*There are no recent comments...*

Recent Entries

1 Day | 1 Week | 2 Weeks | 1 Month

*There are no recent entries...*

# Collaborative Workspace

'fBIRN Phase I Dataset' Blog

## 'fBIRN Phase I Dataset' Blog

2 Total

### Function BIRN Phase I Traveling Subjects Dataset Available

Today, 01:54 PM

The FBIRN has as its aim to develop initial multi-site, imaging calibration methods and the shared data storage infrastructure. Despite its great potential value, there are significant problems in employing fMRI in multi-institutional studies. Multi-site functional imaging data include the same variability sources as single-site data (e.g., subject and population variability), as well as new sources of variability, such as differences in scanner equipment and methods. fMRI instrumentation and acquisition protocols vary greatly across imaging centers, and methods for data analysis and quantification vary similarly. Even more problematic are the myriad of psychological challenge tasks during which activations are elicited. Finally, the network, storage, and database infrastructure necessary to share and analyze collabora-tively the multi-terabyte data sets resulting from multi-institutional fMRI studies do not exist. The FBIRN accomplished its primary aim by developing a Phase I protocol for use at all sites and recruiting subjects who traveled to all sites for a standardized imaging protocol in the summer of 2003. Previous multicenter MRI studies have imaged the same subjects at different sites but have focused on structural MRI and have not included fMRI. The purpose of Phase I was to assess intersite differences and decrease them by standardizing the protocol, when possible, while introducing methods for correcting for remaining intersite differences. Since there is no obvious way to calibrate functional imaging signals from cognitive tasks, a simultaneous motor, visual, and auditory (sensorimotor) task was developed and tested, along with a breath-holding task, to measure vascular response, as minimally cognitive probes. Development of these protocols was a multi-site collaborative effort; imaging data were collected in parallel on multiple versions and the final designs followed from the most robust results, validation across sites or modalities (e.g., ERP testing of the initial auditory task), and finally common consensus on best practices. Following multi-site testing and refinement of these paradigms, five volunteer subjects recruited from the community traveled to all sites and spent a minimum of 2 days at each site. The Phase I subject pool consisted of five right-handed healthy male subjects who ranged in age from 20 to 29 years with no history of psychiatric or neurological illness, and with normal hearing in both ears. These subjects traveled to each FBIRN site and were tested twice at each site on successive days. Subjects were scanned in each MRI scanner at least twice using the calibration and cognitive protocols to produce a dataset to measure intersite, intersubject, and intersession variance. All subjects returned to their original site for a final scan at the end of the study. Three subjects visited Stanford twice and two visited the University of Minnesota twice, once at the beginning of the study and then again at the conclusion of the study, after visiting all other FBIRN sites. A standard FBIRN protocol was used for image acquisition with controlled variation at different sites to evaluate differences due to k-space trajectories and field strengths. This multi-site study is the first of its kind and provides essential data for beginning multi-site imaging studies.

Comments

Read more...

**Search Articles:**

**Article Length:**

**Sort By:**
Date
Title
Source
New

**Recent Articles:**
All
Today
Yesterday
Last Seven Days
This Month
Last Month

**Source:**
'fBIRN Phase I Data...

**Actions:**
Mail Link to This Page
Add Bookmark...

# Collaborative Workspace

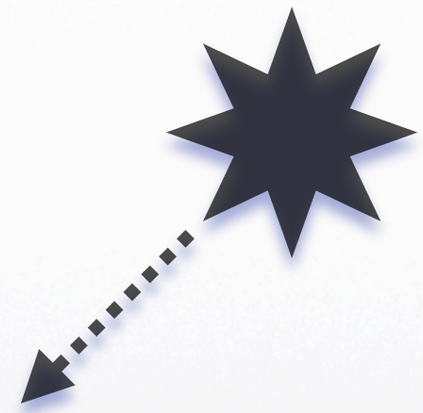
Collaborative Projects

Biomedical Applications

Membership Management

Data Spaces

Integrated Mailing Lists



Collaborative Tools

Information Feeds

Project Forums

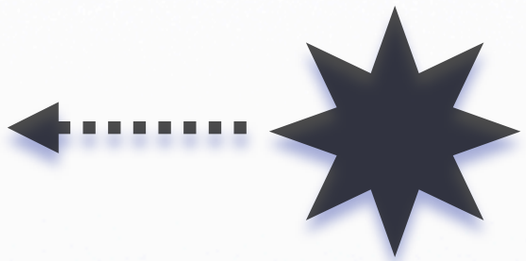
# Collaborative Workspace

Collaborative Projects

Biomedical Applications

Membership Management

Data Spaces



Integrated Mailing Lists

Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

BIRN Portal

BIRN PORTAL — BIOMEDICAL INFORMATICS RESEARCH NETWORK

Logout
Welcome, Jeffrey Grethe

Collaboration | Layout | Administration | Resources | Biomedical Tools | Data Management | Site | Accounts | Help

SRB Files | SRB Status | SRB Clients | SRB Resources

**SRB Collections Browser**

**SRB Browser**

Navigation | FilesAndFolders | Views | MetaDataUtils | AdvancedTools | GridInfo

UnixLikeNavigation

Browse To: /home/jegrethe.ucsd-bcc/Launch/FullDicom Go!

SRB File/Folder List With Details

| Select | FileName | Size | Date Created | SRB Resource | Replica # | Download | Details |
|---|---|---|---|---|---|---|---|
| | 001.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 002.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 003.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 004.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 005.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 006.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 007.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 008.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 009.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 010.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 011.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 012.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 013.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 014.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 015.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |
| | 016.dcm | 129.96KB | 2006-08-03 10:31:27 AM | ucsd-bcc-nas | ORIGINAL | | |

**Search**

Go

**File/Folder Details**

| | |
|---|---|
| Folder Name: | FullDicom |
| Date Created: | Thu Aug 3, 2006 |
| Time: | 10:31:18 AM |

| User | Domain | Permission |
|---|---|---|
| birn | groups | read |
| jegrethe | ucsd-bcc | all |
| mjames | ucsd-bcc | read |
| rmanansala | ucsd-bcc | read |

**Upload**

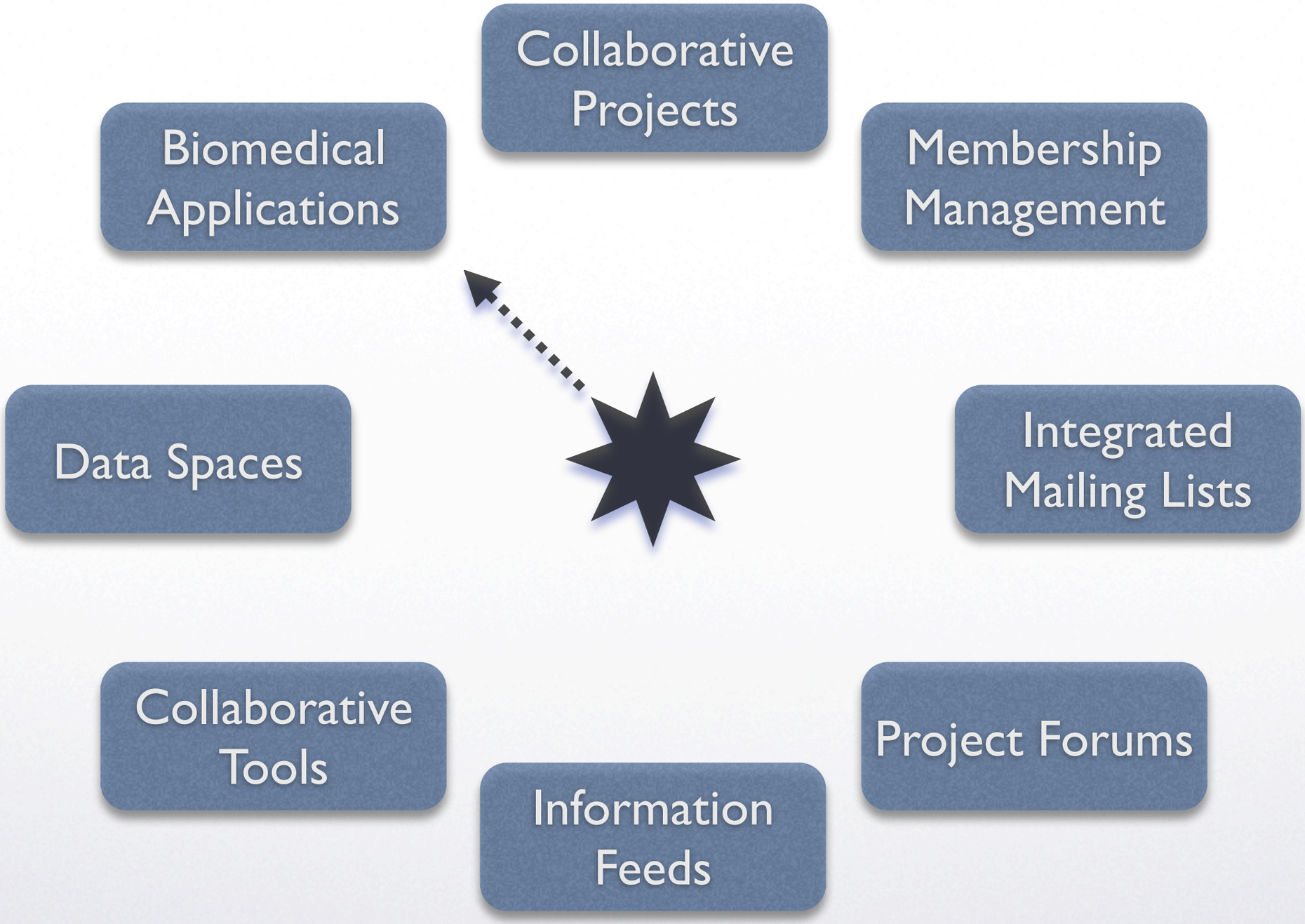
Local Path: Overwrite

Choose File no file selected

Upload File

Size Limit: **300** MB

# Collaborative Workspace



# Collaborative Workspace

Collaborative Projects

Biomedical Applications

Membership Management

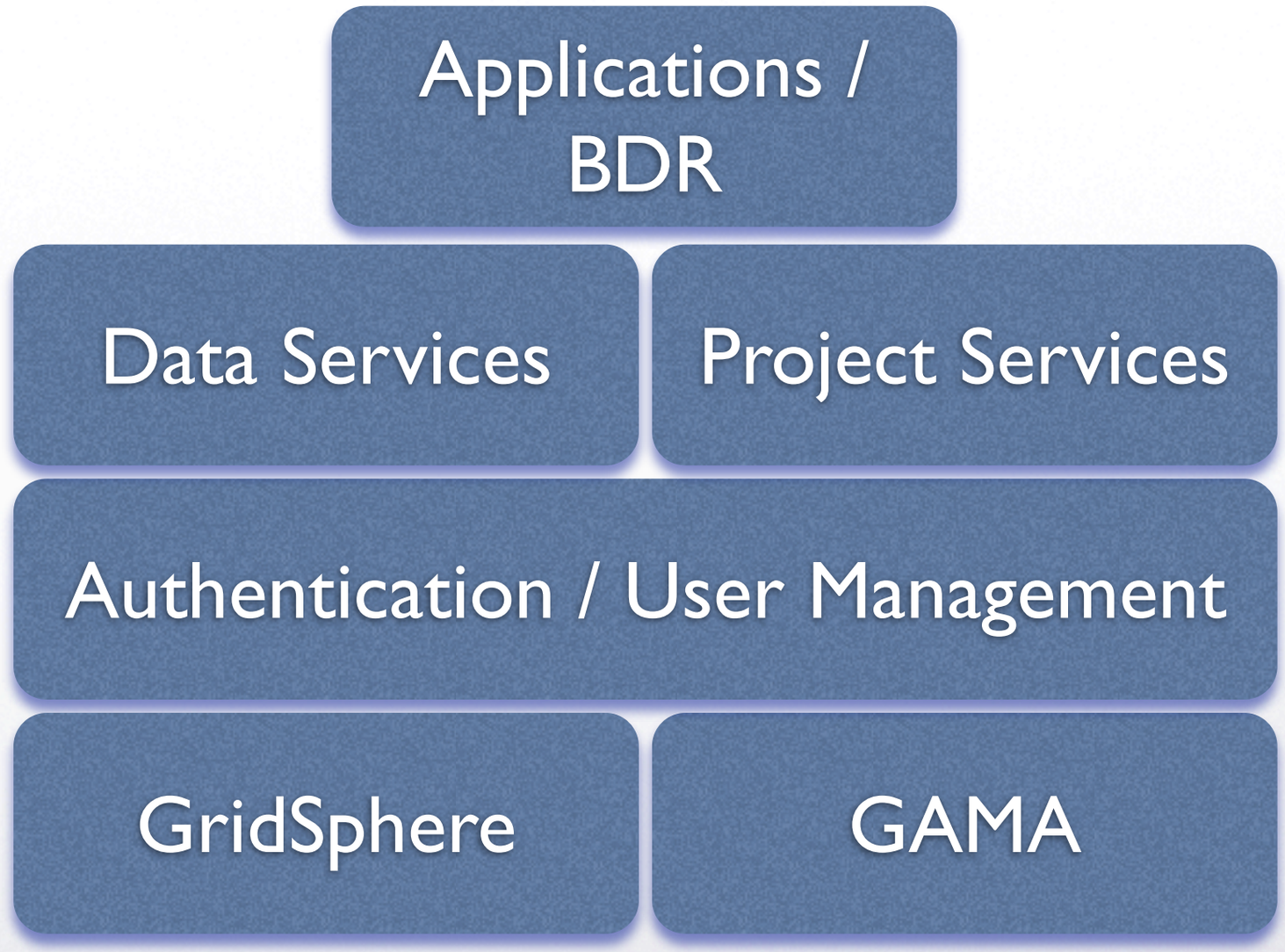
Data Spaces

Integrated Mailing Lists

Collaborative Tools

Information Feeds

Project Forums

# Collaborative Workspace

- Project Services provide a foundation for building customized applications
- e.g. The BIRN Data Repository can treat each contribution as a "project"