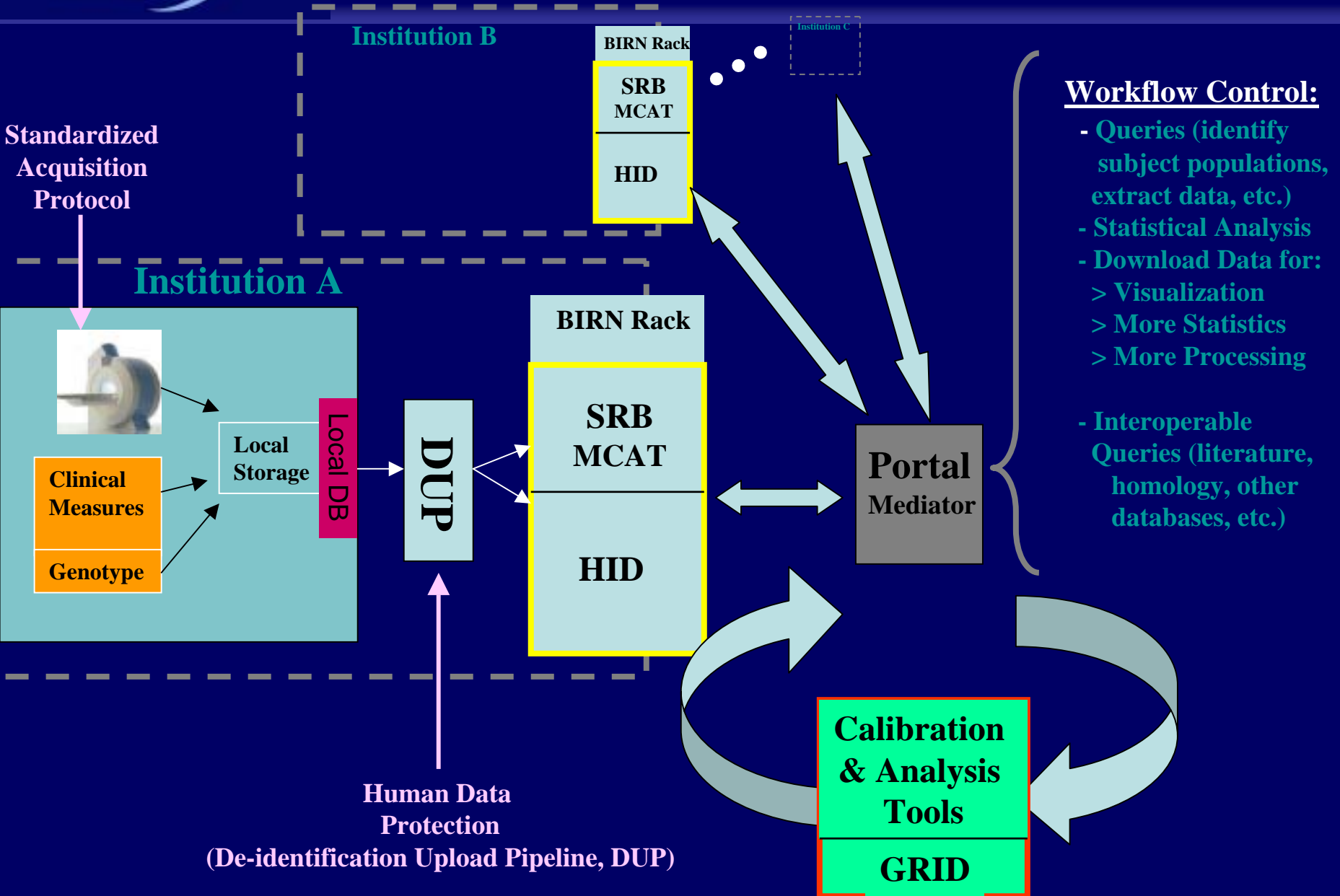


BIRN: Informatics Architecture





Computational Informatics

6-month milestones

From All Hands Meeting, 2004

DATABASE TECHNOLOGIES

- Beta test XNAT deployment to selected BIRN sites (D. Marcus)
- Controlled release cycles of databases (HID) and tools
BIRN Release 2.0 (J. Grethe)
- Postgres Implementation of the HID (B. Ozyurt)

WORKFLOW

- End-to-end uploading improvements
(fBIRN Phase 2 data BIRNDUP) (J. Sacks, D. Keator)
- CALM/GAME assessment incorporation
(~10 assessments, i.e. SAPS, SANS, BDI, etc.) (B. Ozyurt)

ACCESS AND QUERY OF DATA

- Improve Statistics Interface (D. Kennedy)

KNOWLEDGE MANAGEMENT

- Expand data mediation capabilities (B. Ozyurt/A. Gupta)
- Enable Ontology/Semantic Web Resources (C. Fennema-Notestine/D. Karger)

DATA PROVENANCE

- Integrate Provenance with XML upload (N. Aucoin)
- Store Data Provenance in the HID (N. Aucoin)

DATA CURATION

- Integrate Portal's registration and data checkout tool (J. Sacks)
- Create quality assurance tools (D. Marcus)

PUBLIC DATA

- Public release of WashU AD data (~400 subjects, anonymized)
(D. Marcus)



Computational Informatics Thrust Areas for Next Year

- Local Data Management
- Workflow (Processing Pipeline)
- Technical Publications
- Data Integration
 - Support for Application/Science Papers

mBRIN Informatics Options

Local
Data Sources:
Imaging
Clinical
Behavioral
Genetic
etc.

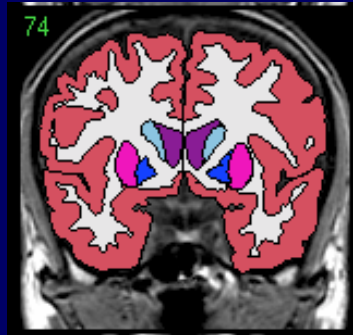
Local
Data Management:
Database
Study Design
Workflow
etc.

Global
Data Sharing
Database
Query
Statistics
etc.

Local Database Options

- XNAT
- HID
- LONI DB

MAD Project: HID Example



MGH
Segmentation

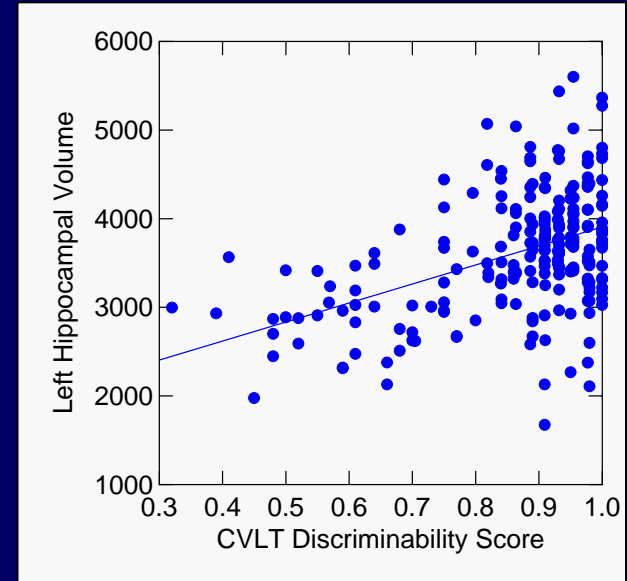
Data Acquisition
Sites

UCSD
HID

BWH/MGH
HID



De-identification
and upload



Multi-site data
Queries and statistics

