The Big Vision

**Library**
- Open Links
- Curation Workflow
- Access Controls
- Fixity Checks
- Repository Retention

**Research**
- Annotation
- Collaboration
- Workflow
- Data Management Plans
- Open Access
- Institutional Retention

**IT Operations**

**Storage Management**
- Backup/Restore
- Tiered Storage
- Data Migration
- Cloud Interface

**Reporting**
- Chargeback / Showback
- General Reporting
- IT Governance
Data Management Stack with Middleware

File System Middleware
Global File System & Life Cycle Management
(UNC Path and/or Object Address)

Policy Engine
Data Mover
Metadata

File System
File System(s)

Storage Tier 1
Storage Tier 2
Storage Tier 3
A “Virtual” Global File System