

Presentation Overview



- Introductions
- LionShare Technology Overview
- Year 1 - Progress Report
- LionShare v0.4 Demonstration
- Year 2 - Roadmap
- Discussion

Introductions

LionShare Advisory Group



LionShare Technology Overview

Michael J. Halm - Project Director





Problems Identified

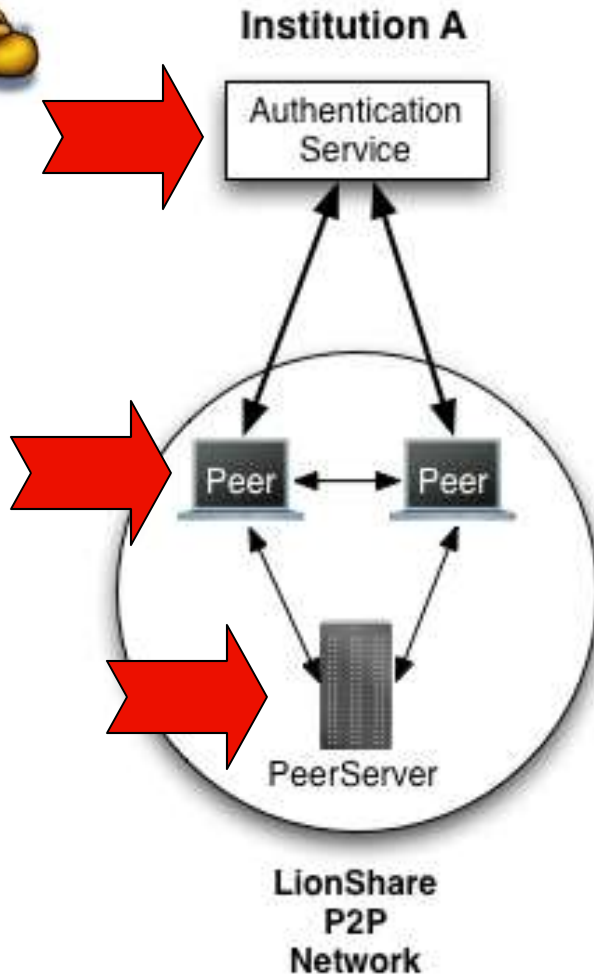
- Proliferation of digital resources
- Tools to manage personal collections
- Difficulty finding appropriate resources
- Difficulty merging public/private collections
- Need for faculty/student/dept's to manage large collections
- Need for copyright protection and access control



LIONSHARE

Enter LionShare

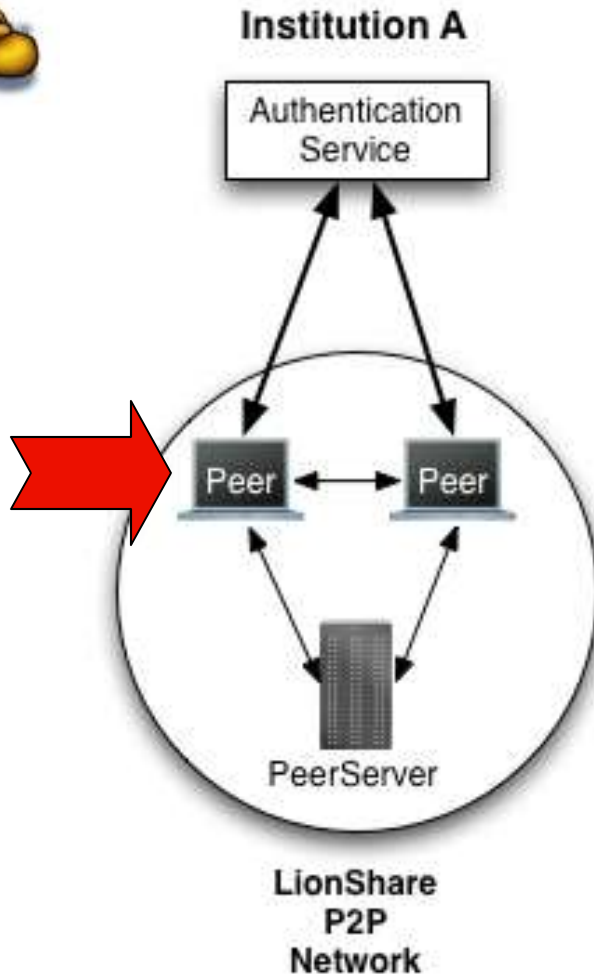
Basic LionShare Components



- Peer
- PeerServer
- Authentication



Basic LionShare Components

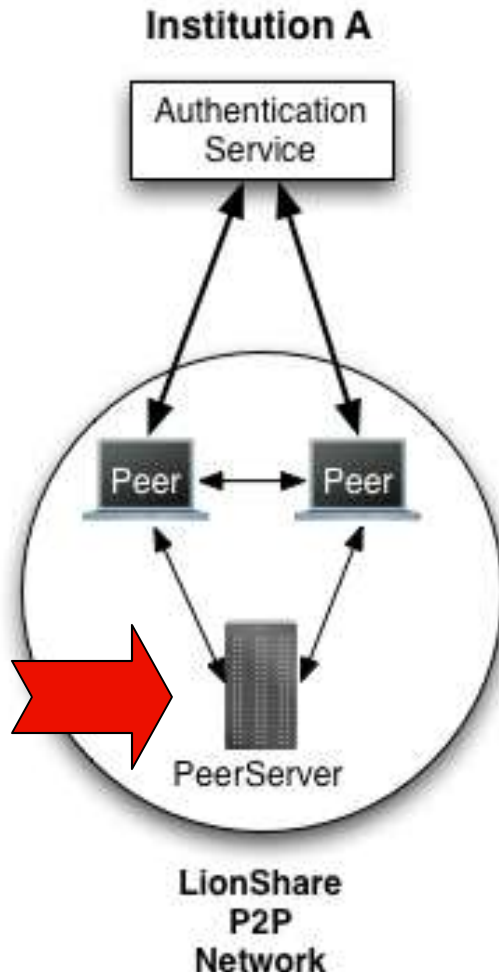


Peer

- Organize
- Search
- Share
- Collaborate



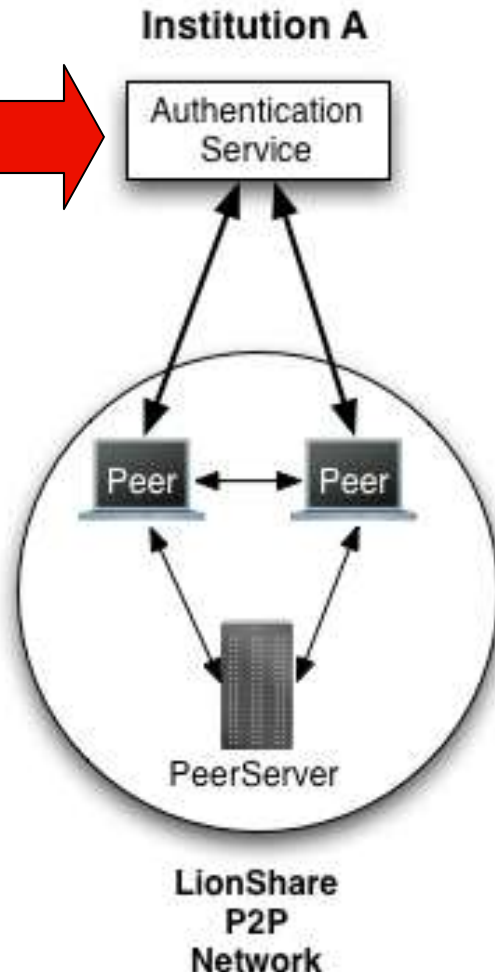
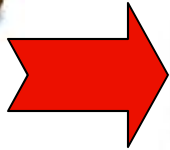
Basic LionShare Components



PeerServer

- Users
 - Persist files
- Administrators
 - Configuration
 - Statistics

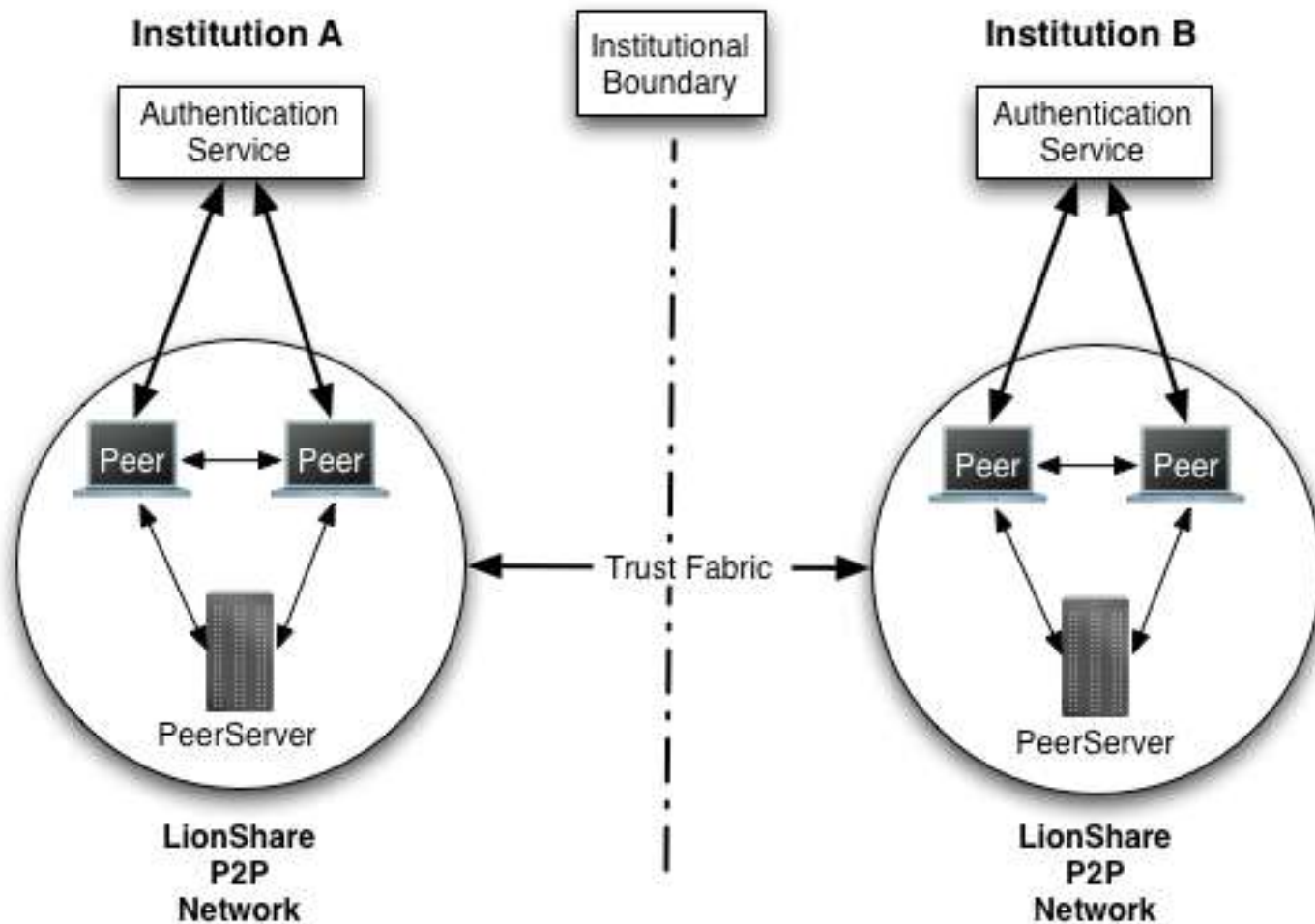
Basic LionShare Components



Security

- Authentication
 - Basis for trust
 - Digital identity

LionShare Trust Fabric

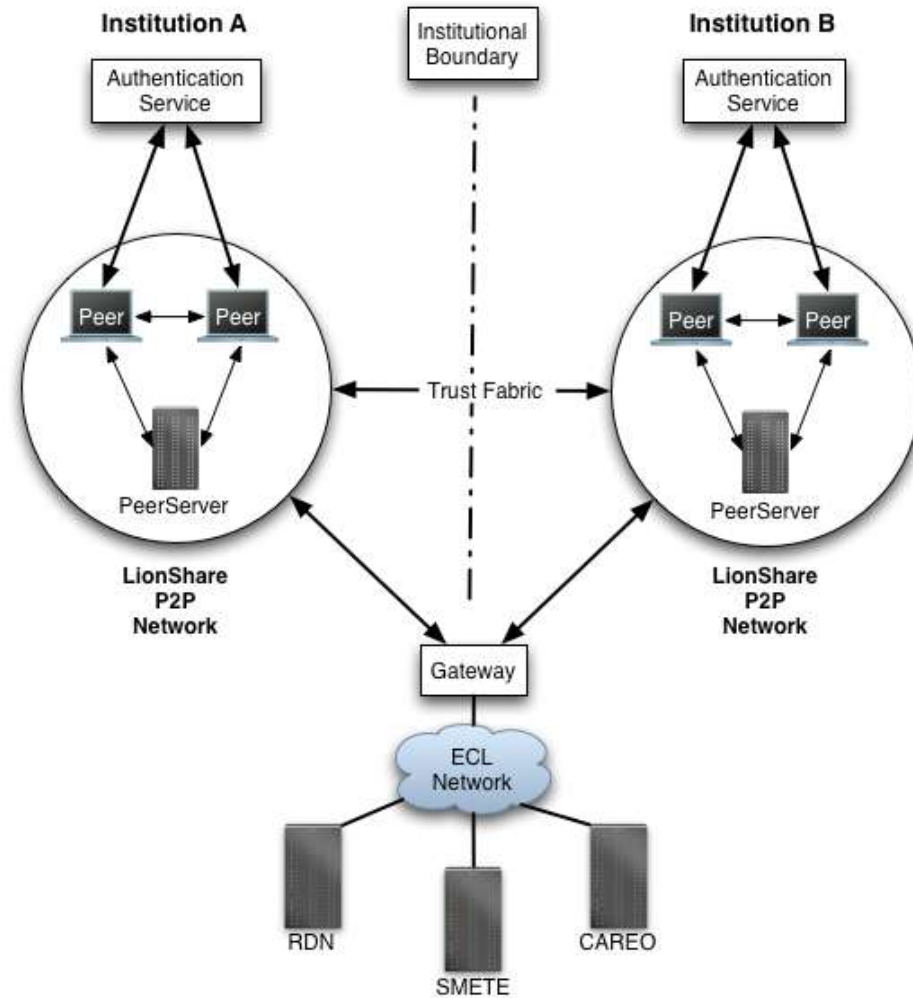




LionShare Trust

- Authenticated Peer
 - Allows trust and secure connections
- Individuals search anonymously
- Can not share anonymously
- Ability to control access

Federated Repositories



Federated Repositories



- Expands the reach of P2P
- Repositories outside P2P
- Uses ECL Connector
- Simple identity and password
 - But not secure
- Extend ECL to include security

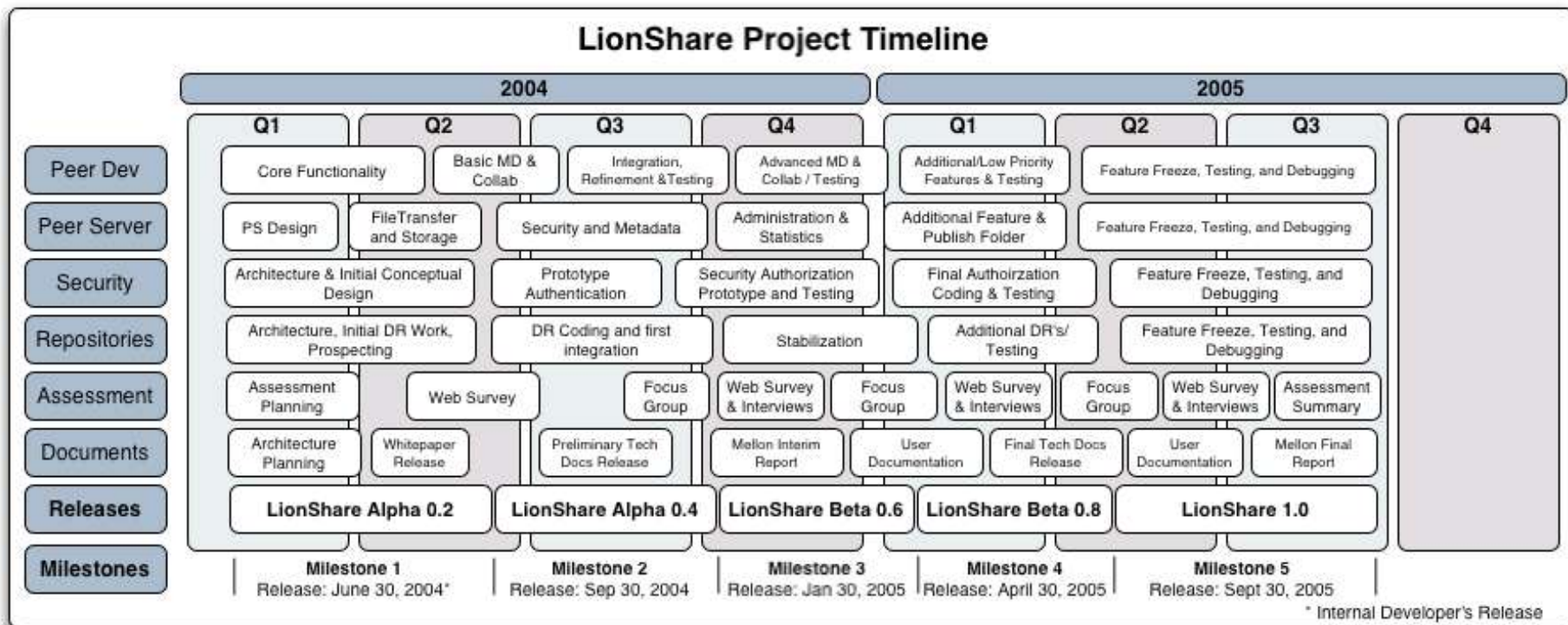
Year 1 Update

Michael J. Halm - Project Director



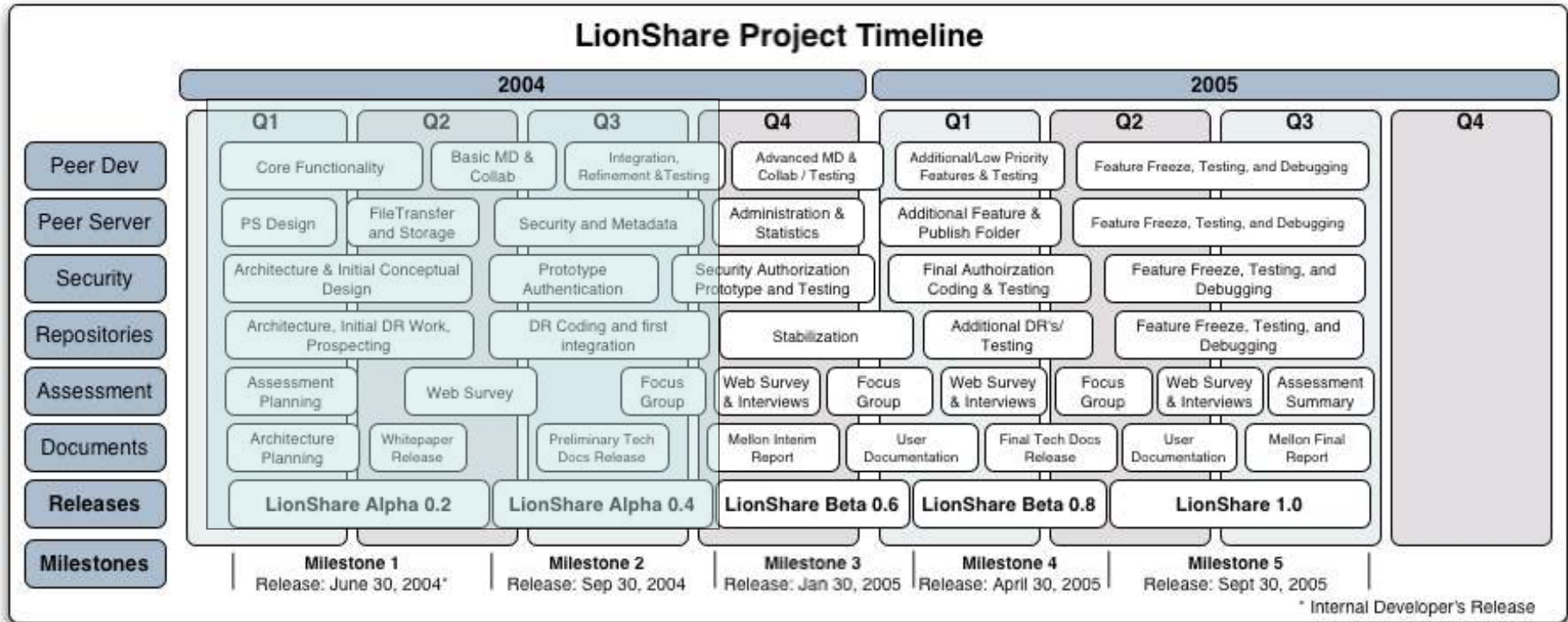


Year 1 - Progress Report





Year 1 - Progress Report





Year 1 Highlights

Milestone 1

LSv0.2 - June 30th, 2004

- Tested different conceptual designs
- Created private LS P2P network
- Developed *Peer* and *PeerServer*
- Integrated *Peer* and *PeerServer*
- Implemented basic search & retrieval
- Implemented basic metadata on *Peer*
- Developed basic Image Viewer



Year 1 Highlights

Milestone 2

LSv0.4 - September 30th, 2004

- Implemented local Authentication
- Preserved metadata on *PeerServer*
- Re-engineered Search technology - Lucene
- Enhanced metadata on *Peer* - automation
- Enhanced Image Viewer
- Implemented basic image preview
- Integrated ECL for Repository Federation

LionShare v.04 Demonstration

Alex Valentine - Senior Developer



Demonstration Overview



Look for:

- Ease of use for *Searching, Organizing & Sharing* academic resources
- Flexibility and extensibility of LS design
- Strong reliance on the use of metadata
- Auto-generation of metadata
- Ability to persist resources using *PeerServer*
- Integration of security

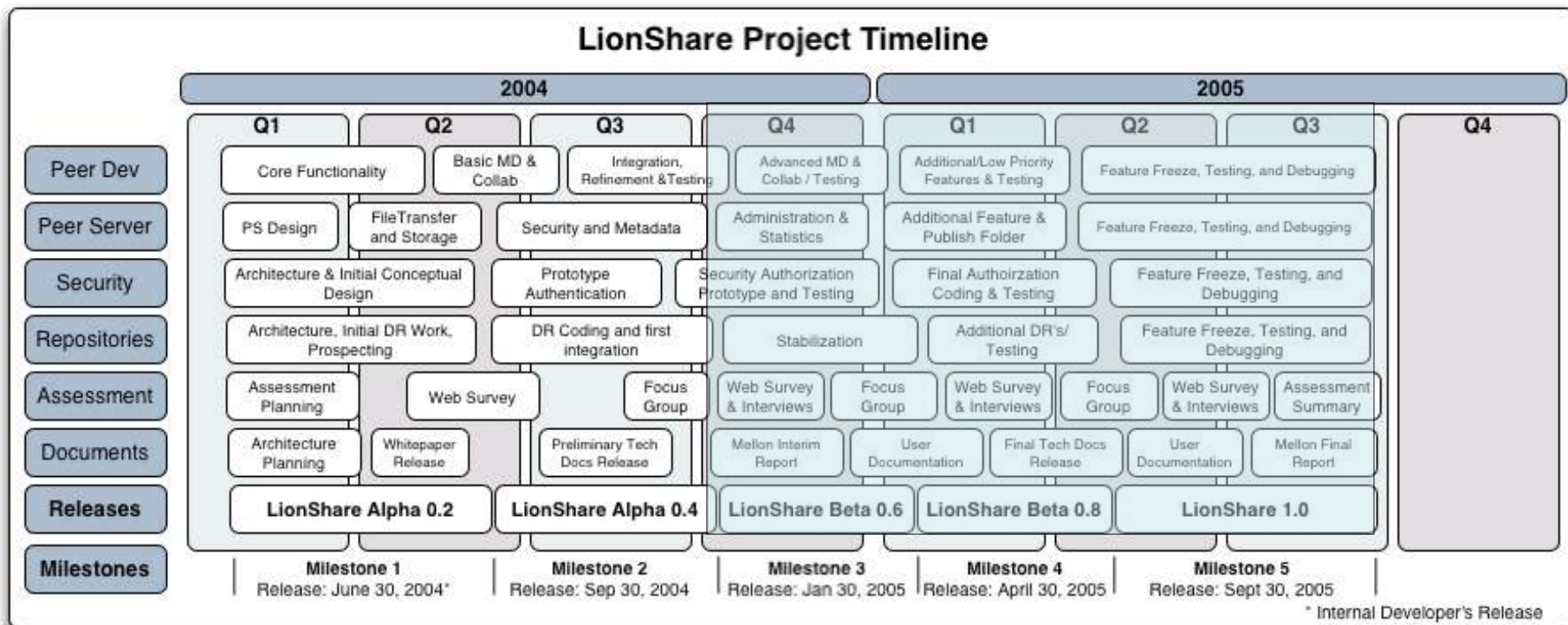
Year 2 Roadmap Discussion

Michael J. Halm - Project Director





Year 1 - Progress Report





Year 2 Roadmap

Milestone 3

LSv0.6 - January 30th, 2005

New Peer Features

Library/Personal Collection

- Support for offline use
- Develop symbolic folders and lists
- Better Image Viewer integration
- Support for Thumbnail and list views
- Better support for Media files
- Better PDF viewer support
- Better UI for publishing directly to *PeerServer*



Year 2 Roadmap

Milestone 3

LSv0.6 - January 30th, 2005

New PeerServer Features

Better support for Administrative functions

- Develop new file organization and management
- Develop new administration interface
- Support for usage statistics
- Support for log files to track users
- Support for security certificates
- Support for *Public Folder* - Web Access
- Support for Authorization rules



Year 2 Roadmap

Milestone 3

LSv0.6 - January 30th, 2005

Improved Security

- Implement Access Control Lists
- Extend SASL CA with the Shibboleth Attribute Authority
- Implement XACML policy language
- Develop authorization GIU
- Test and stabilize security features



Year 2 Roadmap

Milestone 3

LSv0.6 - January 30th, 2005

Greater Repository Security & Interoperability

- Implement Secure ECL in repositories
- Integrate Secure ECL and LionShare security
- Implement improved OKI DR OSID for ECL Gateway



Year 2 Roadmap

Milestone 4

LSv0.8 - April 30th, 2005

New Peer Features

- Implement Metadata Editor refinements
 - *Metadata cross-walking*
 - *Metadata editor configuration*
- Enhance metadata automation features
- Support the use of User Profiles (more than 1)



Year 2 Roadmap

Milestone 4

LSv0.8 - April 30th, 2005

New Peer Features

- Develop greater Collaboration Support
 - *Instant messaging*
 - *Group Chat*
- Improve Search features
 - *UI refinements*
 - *Support Authorization support*
 - *Optimize the Search history*
 - *Implement Download Status indicator*



Year 2 Roadmap

Milestone 4

LSv0.8 - April 30th, 2005

New Peer Features

- Implement Customization tools
 - *Skinning support*
 - *Automation scripts for custom LS builds*
- Develop software Installers
 - *Mac*
 - *Windows*
 - *Unix*



Year 2 Roadmap

Milestone 4

LSv0.8 - April 30th, 2005

New PeerServer Features

- Provide additional administrative support
- Support use of Quotas
- Develop *PeerServer* installer



Year 2 Roadmap

Milestone 4

LSv0.8 - April 30th, 2005

New Security Efforts

- More Debugging activities
- Additional User Testing
- Enhance performance



Year 2 Roadmap

Milestone 5

LSv1.0 - September 30th, 2005

- Stabilize release and fix bugs
- Release user documentation
- Release technical documents
- Complete assessment activities
- Develop training



Conclusion

- Incredible interest
- Informal JISC involvement
- Commitment to product improvement through assessment
- Regular software Open Source releases
- Potential to improve research and faculty collaboration
- New opportunities on the horizon

Advisory Group Discussion

