



Sun PASIG Introduction

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Agenda

- Today's Trends and Challenges
- Addressing Today's Challenges
- Sun Directions
- PASIG Agenda

Challenges Digital Libraries and Knowledge Institutions Face

- Data Management
 - > Long-term Sustainability and Permanent Access
 - > Content Growth – Francine Berman's “Got Data” Article...Zettabytes!
 - > Types, Value, New Uses of Content - Long-Tail Data, Curation Impact
 - > Disaster Recovery and Business Continuity
 - > Predicting Future IT Economic Models – Scalability, New Technology, Power Cost
- Growth of Repositories and Cloud Computing
 - > Federation and Connectivity – Trucks vs Datagrid?
 - > Service Level Agreements – Public and Private Clouds?
 - > Broader Access to New Services – DuraCloud, Mellon's AVAN, Datanet Projects

Challenges Digital Libraries and Knowledge Institutions Face

- Content Creation and Sharing Models
 - > Industry Collaboration and Standards Co-Development – XAM, SNIA, iRODS
 - > New Funding Models and Data Use Requirements
 - > Breaking Out of the University's 'IT Grasp': How much does your IT department charge you to host a TB of data?
 - > Documents Tied to Data – Drug and Pharmchem Companies
- Collaboration
 - > Cloud Computing Meets Semantic Web Searching?
 - > User Rights – Authentication, Access, Authorization
 - > Immersive Education Technologies

Addressing the Challenges

- Goals: Lower Risk, Increase Innovation, Broaden Participation
 - > Industry Associations
 - > Open Computing and Storage
 - > Sharing Best Practices via Communities

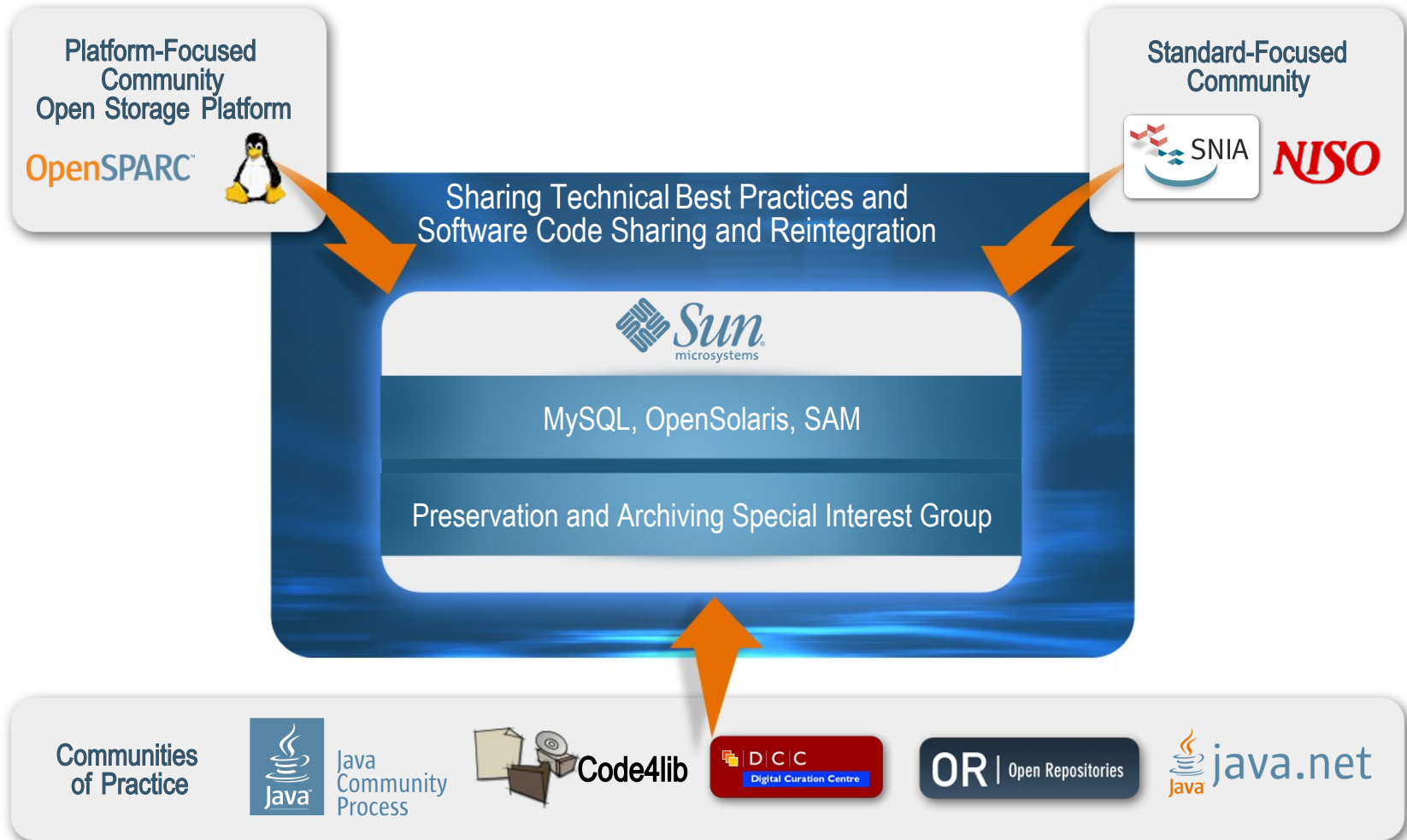
Industry: Storage Networking Industry Association (SNIA) 100 Year Archive Task Force



- Over 80% report a need to retain information over 50 years, and 68% report a need of over 100 years
- 70% of respondents say they are 'highly dissatisfied' with their ability to read their retained information in 50 years
- Current practices are too manual, too prone to error and too costly
- Collaboration is recognized as necessary in order to define information retention requirements
- Database information was considered most at risk of loss

Open Computing and Storage

Open Architectures are Essential for Long-term Sustainability



The Sun PASIG (www.sun-pasig.org)

Started in 2007 by Stanford U. and Sun Microsystems

- Comparison of High-level OAIS Architectures, Workflows, and Use Cases
- Sharing of Best Practices and Community-developed Solutions and Technologies
- Cooperation on Standard, Open, Solutions and Replicable Reference Architectures
- Review of Storage Architectures and Trends and their Relation to Preservation and Archiving and Research Data Set Management
- Exposition of Relevant Commercial Third Party Expertise and Solutions

Focus of the Sun PASIG June 24-26, 2009 Meeting in Malta

- 1) Storage and Data Management Architectures
- 2) Preservation and Long-term Sustainability
- 3) Repository Directions
- 4) Research Data Curation
- 5) Cloud Computing
- 6) Managing Large eResearch Datasets
- 7) Digital Asset Management

Sun Reference Architectures

Develop Collaborative, Replicable Reference Architectures for and With the Community and Partners

- Fedora/Drupal Islandora
- DuraSpace
- Infinite Archive Systems (IAS)
- iRods
- EPrints
- Ex Libris Rosetta
- VTLS VITAL

Sun References by Topic

- Slovakian National Library
 - Stanford U.
 - Johns Hopkins U.
 - CINES
 - Oxford University
 - National Library of New Zealand
 - California Digital Library
 - NYU
 - US Library of Congress
 - French National Library
 - Texas Digital Library
 - Norwegian National Library
 - Alberta Digital Library
- Broad Digitization, Sun Rays
- OAIS Digital Repository
- eResearch/Data Curation (Fedora)
- eResearch Data
- Fedora Repository, Sun Rays
- Digital Preservation (Ex Libris)
- Large Scale Digitization
- Digital Asset Management
- Broad Digitization, SAM-QFS
- Broad Digitization
- DSpace Repository
- Broad Digitization, SAM-QFS
- Long-Term Sustainability



Thank You !
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