Considerations for Implementation of a Permanent Access Repository: A Storyboard

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The PAR Storyboard
Scene One: “White Light”
Vision Mission Values Goals and Objectives

• The White Light inspires Vision!
  – The Academy and the Economy?
    • Financial markets drive the Economy
    • The Scholarly Communication Process drives the Academy
  – The Mission
    • Build a PAR that support SCP
    • Goals and Objectives illuminated by the path

  Helpful resources:
  • Publisher Archive : Portico
  • Government - US NDIPP
  • Government-Europe JISC
  • Research Library - CDL
  • MS - Research output Repositories
The PAR Storyboard

Scene Two: “The Cathedral or the Bazaar”

Institutional Support

- A Process: *Bottom Up Approach*
  - informal gatherings sponsored by a senior administrator(s)
  - Difference voices and expression for repository digital services are heard and recorded
  - Senior technology/Library administrators bring this activity to senior University administration.
  - Formal group is charged to create an environmental scan of the digital landscape
  - Senior administrators support the creation of an office to build digital infrastructure

- Helpful Suggestions:
  - Contact peer institutions
  - Participate in community groups like PASIG, Dspace Fedora
  - Listen to your stakeholders
PAR Storyboard
Scene Three - “The Whirlwind”
The Business Plan:

• Typical Content Includes:
  – Project description including objectives and scope statement
  – Strategic/fit purpose
  – Technology Landscape
  – Financial analysis
  – Risk, Impact, assumptions and constraints
  – The high level conceptual solution
  – Key resource requirements
  – Successful completion/acceptance criteria

• Helpful Resources
  – Financing Digital Preservation in the UK
  – DLF Aquifer Business Plan
  – DPC Cost Models for Digital Preservation
PAR Storyboard
Scene Four: “Getting Down To Business”
Technical Framework

• Basic Ingredients
  – Repositories
  – Architectural Models
  – Data Models
  – Standards & Protocols
  – Service Frameworks
  – Programming Frameworks

• Helpful Resources
  – PLANET PUBLICATIONS
  – DLF Service Framework
  – JISC Information Environment
PAR Storyboard
Scene Five: “The Permanent Access Data Store”
Repository Options

• Open Source
  • Dspace
  • Fedora
  • Greenstone
  • E-prints and Others
  – Vendor
    • Ex-Libris - NLNZ

• Helpful Resources
  – Dspace
  – Fedora
  – Greenstone
  – Ex-libris
PAR Storyboard

Scene Five: “The Devil is in the Details”

“Preservation Planning

- Preservation Planning
  - Community Standards, Monitoring, and Requirements
  - Models
  - Tools
  - Essential Characteristic
    - Metadata
  - Preservation Treatments

- Help Resources
  - PLANETS-PLATO
  - JISC Digital Curation Center
  - PREMIS
  - METS
PAR Storyboard
Scene Six “Bricks and Mortar”
Storage Systems

• Storage Stack
  – Controllers Channels NIC(s)
  – Disk & Tape
  – Optical!

• Storage Management
  – File and Tape Systems
  – Configurations Polices Rules
  – Storage Health Maintenance

• The Future- DuraSpace
  – Distribute content to multiple storage providers
  – Provide a trusted value add service layer to generic storage providers
PAR Storyboard
Scene Seven “Lessons Learned”
The Permanent Access Repository

- Institutional and Stakeholders buy-in key factors for success
- The PAR best servers the Scholarly Communication Process by supporting the life cycle of digital objects across academic domains
- Successful PARS will interoperate with other repositories
- PARS should under gird web publishing of scholarly information and data
PAR Storyboard
Scene Eight “Sharing the World’s Information”
Access from Local to Global Communities

- Christine Borgman
- Yes We Can - We Hope
  - Realize the Premise and The Promise of
  - Networked Repositories
    - Giving and Receiving Information
    - Improving life from the local family to the global family regardless of location.

QuickTime® and a decompressor are needed to see this picture.
PAR Storyboard
Scene Nine
The End of Storyboard
&
Thank You