Scalable Preservation Environments

Bram van der Werf
bram@openplanetsfoundation.org

www.openplanetsfoundation.org
Improve Interaction Stakeholders, Users and Solutions

Discussions, Documenting, Consensus, Compromises, Realistic, Reasonable
Projects

- SCAPE
  - EC funded

- AQUA, SPRUCE
  - JISC funded

» No continuous process
Open Community

– Focus on user requirements (man & machine)
– Manage Life Cycle
– Maintenance
– Priorities & Scoping
– Sharing vs re-inventing
– Testing, Deploying & engineering

» As substitute for a business
Community: openplanetsfoundation.org

- Practitioner blogs (openplanetsfoundation.org)
- Preservation WIKI (wiki.opf-labs.org)
- Bug, Issue and feature tracking (jira.opf-labs.org/secure/Dashboard.jspa)
- Open Source Development Collab
- Preservation Community creating requirements and use cases
- Host Projects
- Preservation Tool Garden
OPF Developers’ Community

- Collaboratory
  - Focus on practitioner requirements
  - Make sure we don’t re-invent the wheel)
  - Coding practices
  - Maintainability, Serviceability, Robustness
  - Transparent (Open Source)
  - Keep it simple (micro-services, agents)
Managing Open Source software

- Github (in sync with SVN on Sourceforge)
- JIRA (Issue Tracking)
- Confluence (Wiki)
- Bamboo (continuous integration)
- Crucible (code review)
- Fisheye (notification of code changes)
The challenge of tools and services

• They need ACTIVE Users
• Simple and fit for its purpose
• Supportable and maintainable
• Able to adapt to changing requirements
  • Requirements Management
Solution Challenges

Storage, bit rot
- File utilities
- Command Line Tools

Rendering and Software legacy
- Watch Services (community)
- Complex Objects (databases, etc)

Formats and Obsolescence
- Format Registry Eco-system
- And more small maintainable tools

www.openplanetsfoundation.org
Usage: the real key to longevity and sustainability (data and tools)

- Active Users
  - Improve user experience
- Reporting errors
  - Discover when things go wrong
- Feature requests
  - Know what would make things better
AQUA, SCAPE, SPRUCE Methodology

• Issues
• Scenarios
• Datasets
• Solutions

• http://wiki.opf-labs.org/display/SP/SCAPE+Scenarios+-+Datasets%2C+Issues+and+Solutions
SCAPE Examples

- [http://wiki.opf-labs.org/display/SP/Issue+Overview](http://wiki.opf-labs.org/display/SP/Issue+Overview) (scroll down)

- [http://wiki.opf-labs.org/display/SP/IS14+Archival+crawler+service](http://wiki.opf-labs.org/display/SP/IS14+Archival+crawler+service) (scroll down)

- [http://wiki.opf-labs.org/display/SP/mpeg+video+with+Danish+TV+broadcasts](http://wiki.opf-labs.org/display/SP/mpeg+video+with+Danish+TV+broadcasts)

- [http://wiki.opf-labs.org/display/SP/SO15+JP2+validator+and+properties+extractor+%28jpylyzer%29](http://wiki.opf-labs.org/display/SP/SO15+JP2+validator+and+properties+extractor+%28jpylyzer%29)
From R&D to service

• Requirements
• Prototypes
• Engineering
• Maintenance

• Users, Issues, Solutions, Users, Issues, Solutions Users, Issues, Solutions........................................
Strengthen Practitioner Community

- Bridge gap between R&D and active practitioners
- Requirement and Use Cases (workshops)
- Hack / Mash events (Aqua & Spruce, JISC funded in UK)
  - Practitioners & Developers work together
  - Immediately documented in the wiki
- Promote Blogging and discussions
Summary

• Development practice to build and maintain tools & services

• Methodology for understanding requirements and use cases
  – *But a methodology is not enough*

• Reach out to a wider community of stakeholders
  – *Blogging and feedback from around the globe*

• A placeholder for long term access issues and solutions