

Program Sigma

Fall 2011 Program Update

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Program Σ

Today

- Program Overview
 - Background, Goals and Philosophy
 - Teams and Stakeholder Involvement
 - Objectives
- Action Plan
 - Short- and Medium-Term Services
 - Long Term Services
 - Platform Development
- Discussion

What is Σ ?

- The Greek letter Σ (Sigma) equates to the “S” as in Services
- In mathematics it is the operator for summation, e.g., the cumulative adding of a sequence.
- Shorthand for implementation of Content Stewardship services.

Program Σ Goal

Sigma will develop and implement publishing and curation services for Penn State. These services will serve different audiences, will be implemented throughout 2011-12, and marketed as a cohesive suite by Fall 2012.

PROGRAM OVERVIEW

Program Σ

Program Σ Philosophy

- Make this the highest priority
- Empower the teams and include stakeholders
- Find the gaps and fill them
- Generalize from specific cases
- Work from what we have
- Don't stop with what we have

Program Σ Team

- Andrea Harrington (program manager)
- Marcy Bidney
- Linda Friend
- Mike Giarlo
- Beth Hayes
- Patricia Hswe
- Linda Klimczyk
- Christy Long
- Tim Pyatt

Stakeholder Involvement

- Involvement will vary with Sigma activity
- Stakeholders are both internal and external “users”
- Users play different roles that must be understood
- Demonstrate continuous progress

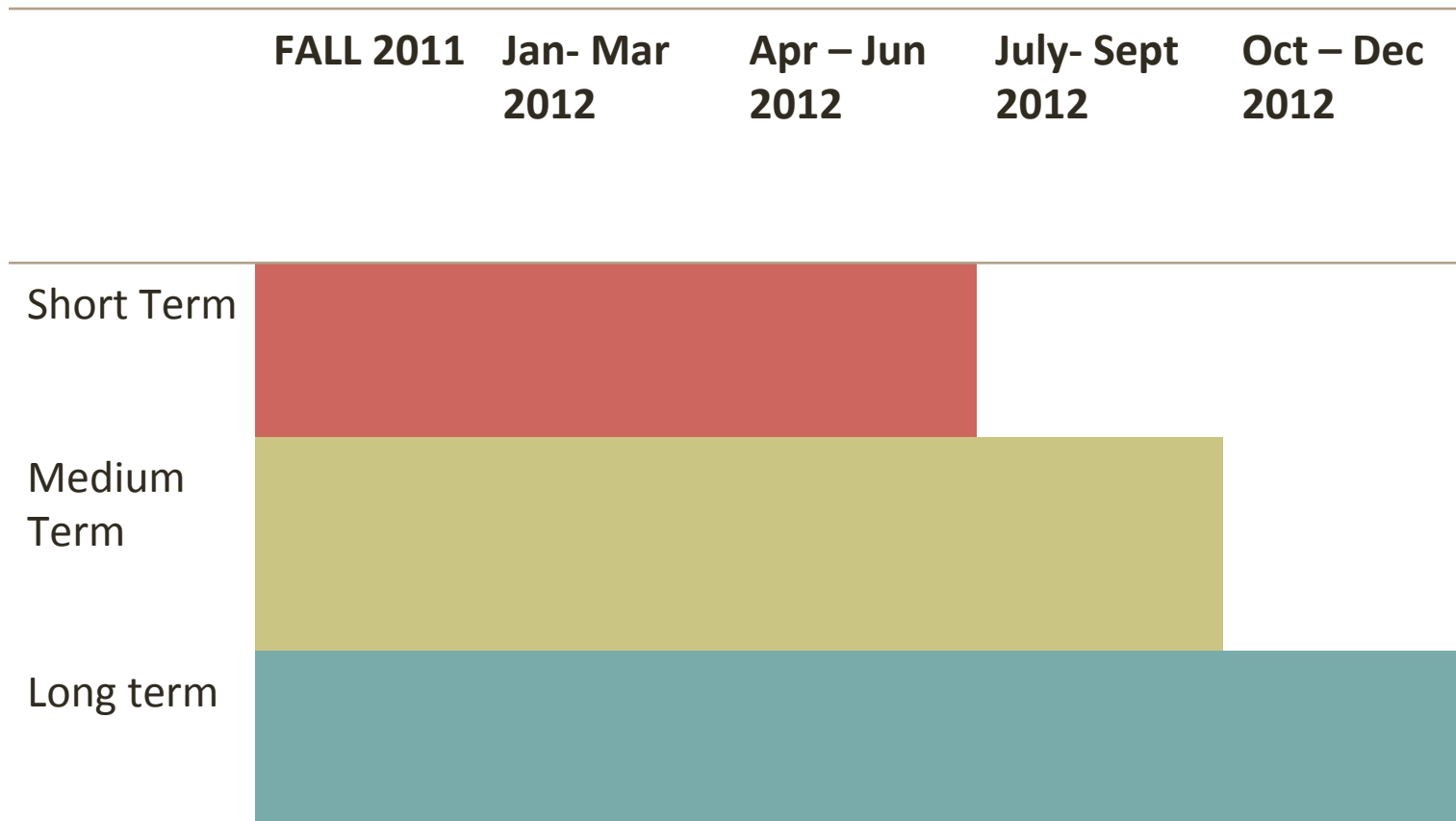
Program Objectives 1

- Develop services leveraging existing infrastructure and that can be realized in the **short term** and **medium term**:
 - Short-term: Collect Graduate Exhibition posters; revisit and update workflow for born-digital data sets.
 - Medium-term: ingest of faculty and student papers, journal publishing services

Program Objectives 2

- In **long term**, design and develop repository services platform to support ingest, management, and delivery of a greater variety of materials, such as:
 - Research data
 - Electronic business records
 - Digital library collections

Timeline



QUESTIONS?

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SHORT-TERM SERVICES

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Born-Digital, Purchased Data Sets

- Develop services for hosting and online access to purchased digital data sets
 - Update/revise workflow for purchasing data sets
 - Forecast storage, access, and service needs
 - Publicize workflow for all selectors (e.g., brown bag, or information session)
- Enable streamlined access to these data sets for faculty and students



Graduate and Undergraduate Exhibition Material

- **Scope:** Online publication of posters and related materials in graduate/undergrad research exhibitions
- **Impact/value:** Opportunity to show research to prospective employers; aligns with Penn State's student-centered mission
- **Audience:** Research community, employers, students seeking models for exhibition work; Graduate School
- **Phase 1:** File format standards, mock-up of UI for ingest, information session on posters (incl. IP issues)



MEDIUM-TERM SERVICES

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Master and Bachelor Papers

- **Scope:** Ingest and discovery of theses and papers that are outside of The Graduate School and Schreyer's Honors College ETD
- **Impact/Value:** Provide discovery and access to research that has been undiscoverable
- **Audience:** PSU programs generating masters papers and dissertations that are not affiliated with the Graduate School
- **Status:** Requirements defined, platform selected, planning underway for ingest tools, pilot ingest Spring 2012



Journal Publishing Services

- **Scope:** Define journal publishing services that the UL will provide and develop capacities to support those services
- **Impact/Value:** Service will support underserved disciplines and researchers
- **Audience:** PSU research community
- **Status:** Phase 1: defining and scoping potential services— underway.

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INTERNATIONAL JOURNAL FOR SERVICE LEARNING IN ENGINEERING

Mission Statement

The Journal welcomes manuscripts based on the original work of students, faculty and researchers with a specific focus on projects, programs, research and pedagogy that involve humanitarian engineering, social entrepreneurship, and service learning. A primary purpose of the Journal is to foster inquiry into rigorous engineering design and research and direct those efforts toward solving problems of marginalized communities. The examination of cultural appropriateness is emphasized along with the application of appropriate technologies and entrepreneurial application of sustainable solutions. Focus is also placed on associated pedagogy and the dissemination of project results as the Journal seeks to nurture service learning in engineering as a distinct body of knowledge.

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QUESTIONS?

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LONG-TERM SERVICES

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Repository Services Platform

- What is it?
 - Web application and repository platform for management, preservation, search, and presentation of digital assets
 - Using Hydra framework and technology stack
- When: November 2011 – September 2012
- Initial use cases:
 - Scholarly materials (papers, theses, etc.) deposit
 - Research data management
 - Electronic business records (University Archives) management
- Project team:
 - DLT: Mike Giarlo, Dan Coughlin, Jeff Minelli, Beth Hayes (project manager)
 - UL: Patricia Hswe, Kevin Clair, Michelle Belden

Research Data Management

- **Scope:** Miscellaneous collections of research data and materials (e.g., datasets, wikis, etc.) that researchers wish to preserve
- **Impact/Value:** Responds to compliance with federal requirements; attempts to enable longer-term access to researcher work
- **Audience:** Research community both at Penn State and at large
- **Status:** Use-case review, functional requirements gathering, stakeholder solicitation

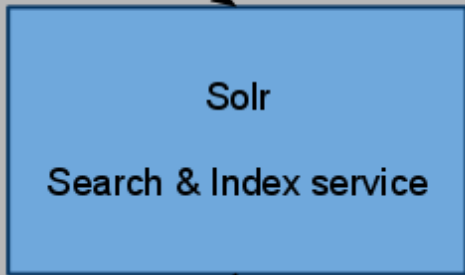
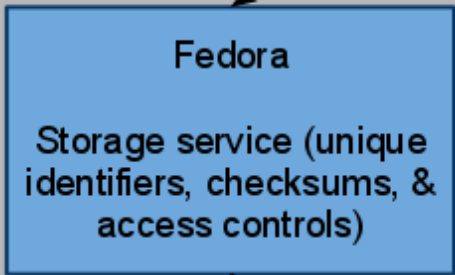
Articles/Papers Deposit

- **Scope:** Digital content (e.g., faculty working papers, etc.) that authors are distributing variously.
- **Impact/Value:** This is “grey literature” that needs to be collected and made discoverable; satisfies frequent faculty requests for this service; supports open-access publishing
- **Audience:** Academic community both at Penn State and at large
- **Status:** Functional requirements gathering, stakeholder solicitation

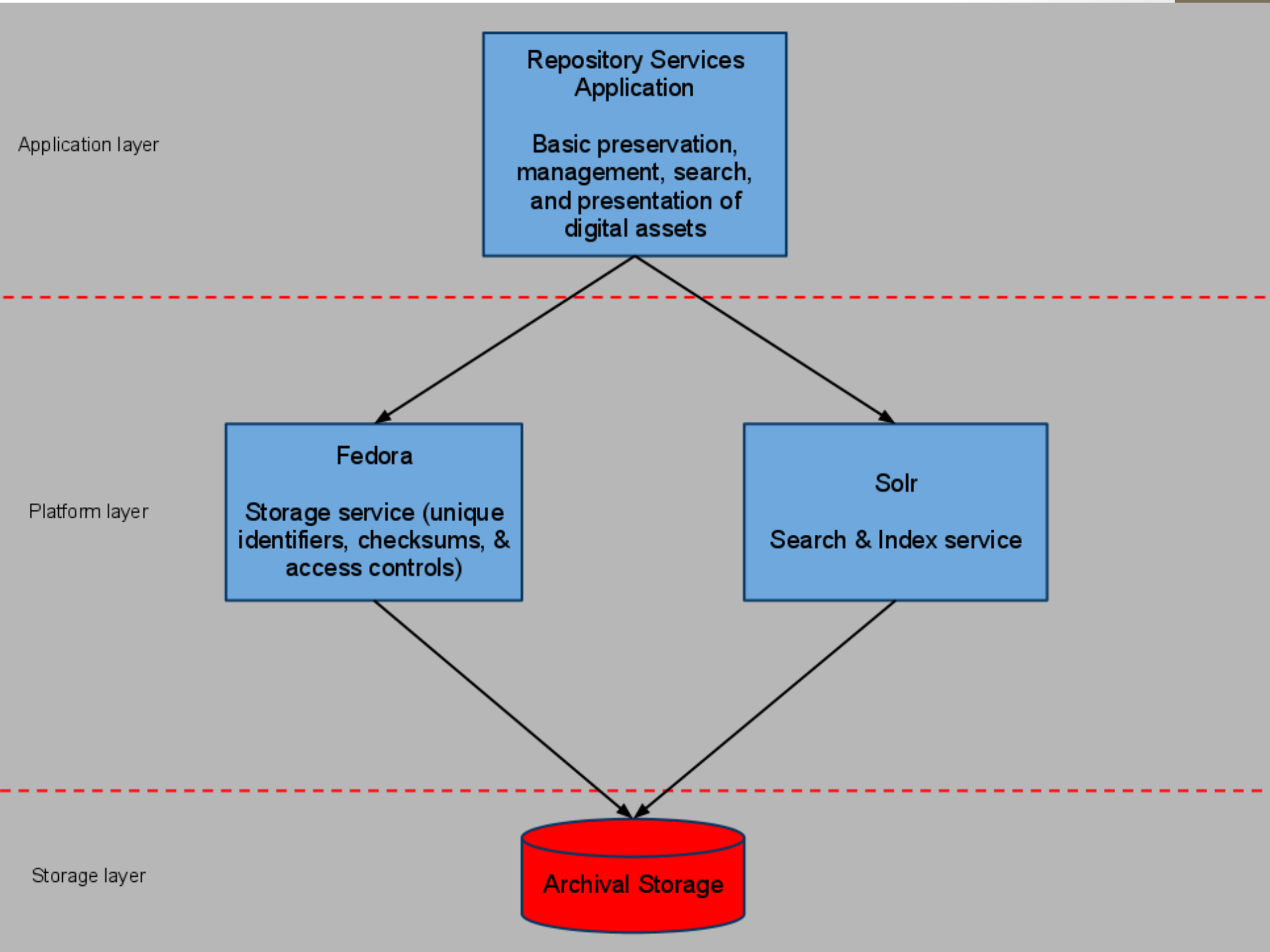
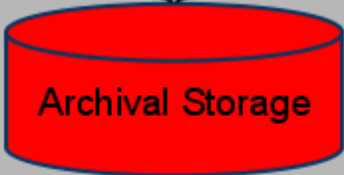
Application layer



Platform layer



Storage layer



Repository Platform Timeline

October – December 2011

1. Project charter and plan
2. Hydra training
3. Use cases collation and assessment
4. Initial features for Beta release identified
5. Architecture development
6. Infrastructure development initiated (servers, storage, security, etc.)

Repository Platform Timeline

January – May 2012

1. Stakeholders engaged in iterative development
2. On-site Hydra consultants (third week of January)
3. User interface designer engaged
4. Baseline ingest and preservation features are implemented and tested
5. Backend infrastructure in place

June – September 2012

1. Beta release features complete
2. Beta release testing, demonstration
3. Beta release

Follow us

- At regular brown-bags starting in Spring semester
- At our website at
www.libraries.psu.edu/psul/scholar/projectsigma.html
- Through Interview articles
- On the Content Stewardship blog at stewardship.psu.edu

QUESTIONS?

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