GPO's Digital Content System

Update for the Fall Conference of the Depository Library Council

October 23, 2006

Agenda

- Program overview and updates since the April meeting
- Introduction to Harris Corporation, the Master Integrator for FDsys
- System testing plans and an overview of activities for the next 6 months
- Q & A

FDsys overview

GPO's Future Digital System will be a world class system for managing official Government content.

The system will verify and track versions, assure authenticity, preserve content, and provide permanent public access.

The system will be:
- – Rules based
- – Policy neutral
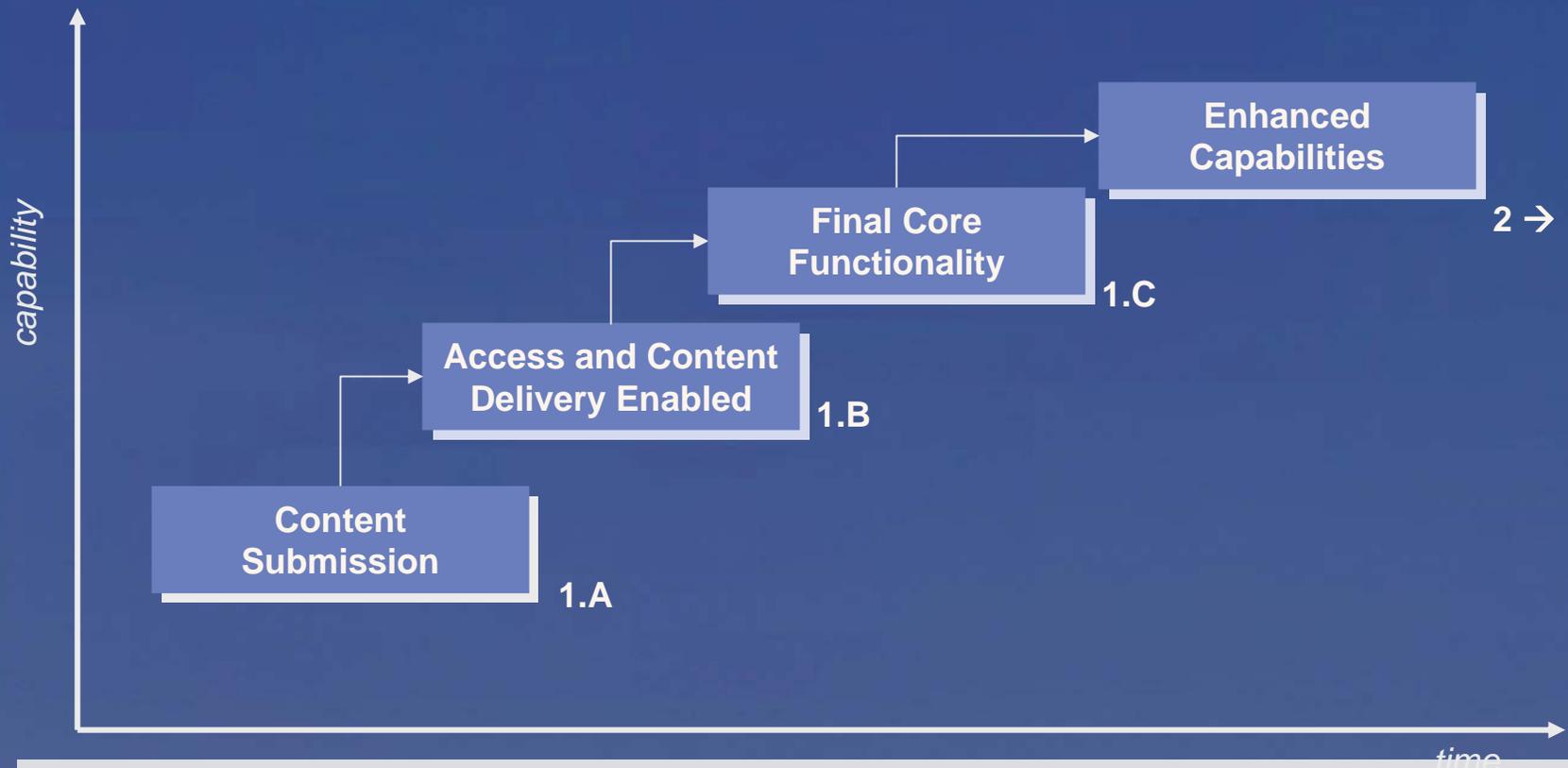- – Modular and adaptable

FDsys overview

- FDsys will automate the collection and dissemination of electronic information from all three branches of government.

- Electronic markings will indicate that the information is authentic and will identify versions of documents that have been revised.

- Information will be permanently available in electronic format.

- Information will be accessible for Web searching, viewing, downloading and printing.

- Document masters will also be available for conventional and on-demand printing.

Status

- A request for quote (RFP) was issued for the Master Integrator in early April (during the Spring conference).

- Harris Corporation was awarded the contract on August 2, 2006.

- Harris showed up for work on August 9, 2006 and haven't left yet.

FDsys Anticipated Releases

capability

Enhanced
Capabilities

2 →

Final Core
Functionality

1.C

Access and Content
Delivery Enabled

1.B

Content
Submission

1.A

time

GPO anticipated 3 system releases to deliver core functionality.

Planned FDsys Development
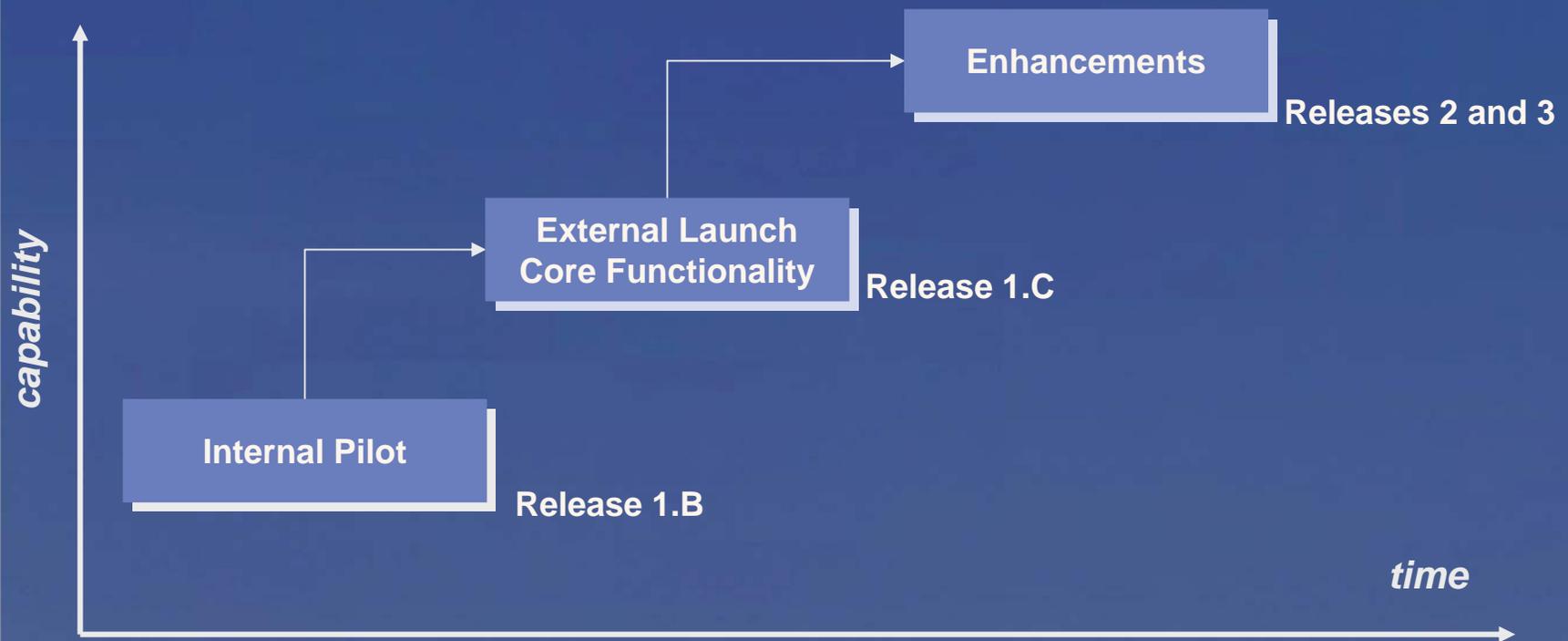
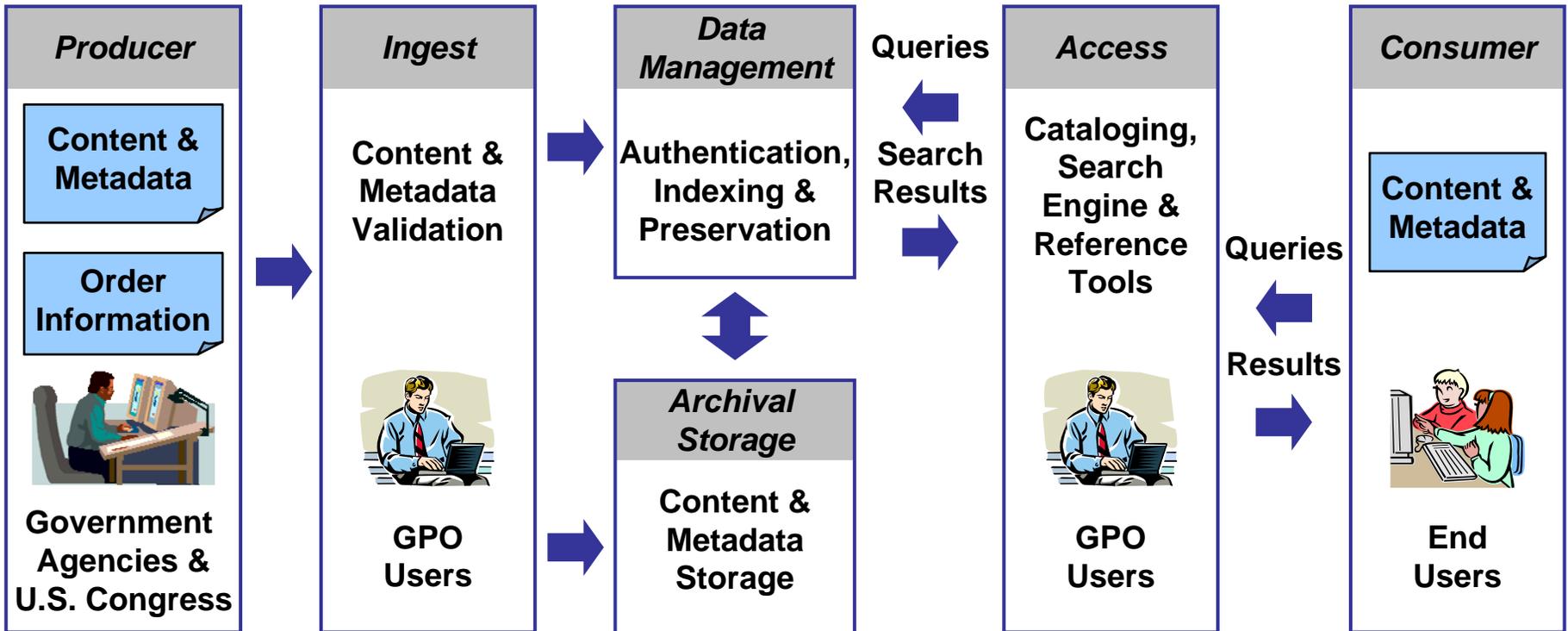*FDsys is being deployed in multiple Releases over the next 2 years.*

Harris -- Background

- Building large, high volume digital archives and information systems for decades
- Archived content includes; documents, metadata, images, census data, weather data, space data, video, and audio
- Runner up on the National Archives ERA program
- Investing in laboratories and research in digital archives, digital preservation, and search technologies
- Involved in the library and digital archive communities

Master Integrator Role

- As the MI, we will design, develop, deploy and test FDsys
  - Collaboratively select products / technologies
  - Integrate COTs including developing workflows
  - Conduct system testing
  - Prepare training materials and user manual and conduct training
- To be most effective in our role, we are working closely with GPO and user community
  - Working hand in hand with the GPO at their headquarters
  - Including GPO Business Units in key decisions and system development
  - Engaging stakeholders

How FDsys Works

Producer

Content & Metadata

Order Information

Government Agencies & U.S. Congress

Ingest

Content & Metadata Validation

GPO Users

Data Management

Authentication, Indexing & Preservation

Archival Storage

Content & Metadata Storage

Queries

Search Results

Access

Cataloging, Search Engine & Reference Tools

GPO Users

Queries

Results

Consumer

Content & Metadata

End Users

FDsys Manages Content & Metadata

Content Package

A content package represents a single publication.

XML Wrapper

The XML wrapper is a table of contents for the package.

content

- **Rendition 1** → **Rendition 1**
  - **Digital Object A**
  - **Digital Object B**
  - **Digital Object …**
- **Rendition 2**
- **Rendition …**

metadata

- **Rendition 1**
  - **Representation Information**
  - **Descriptive**
  - **Preservation**
  - **Technical**
  - **Administrative**
- **Rendition 2**
- **Rendition …**

Key:

- directory
- Digital Object Folders & Files
- XML File

Release Timing and Functionality
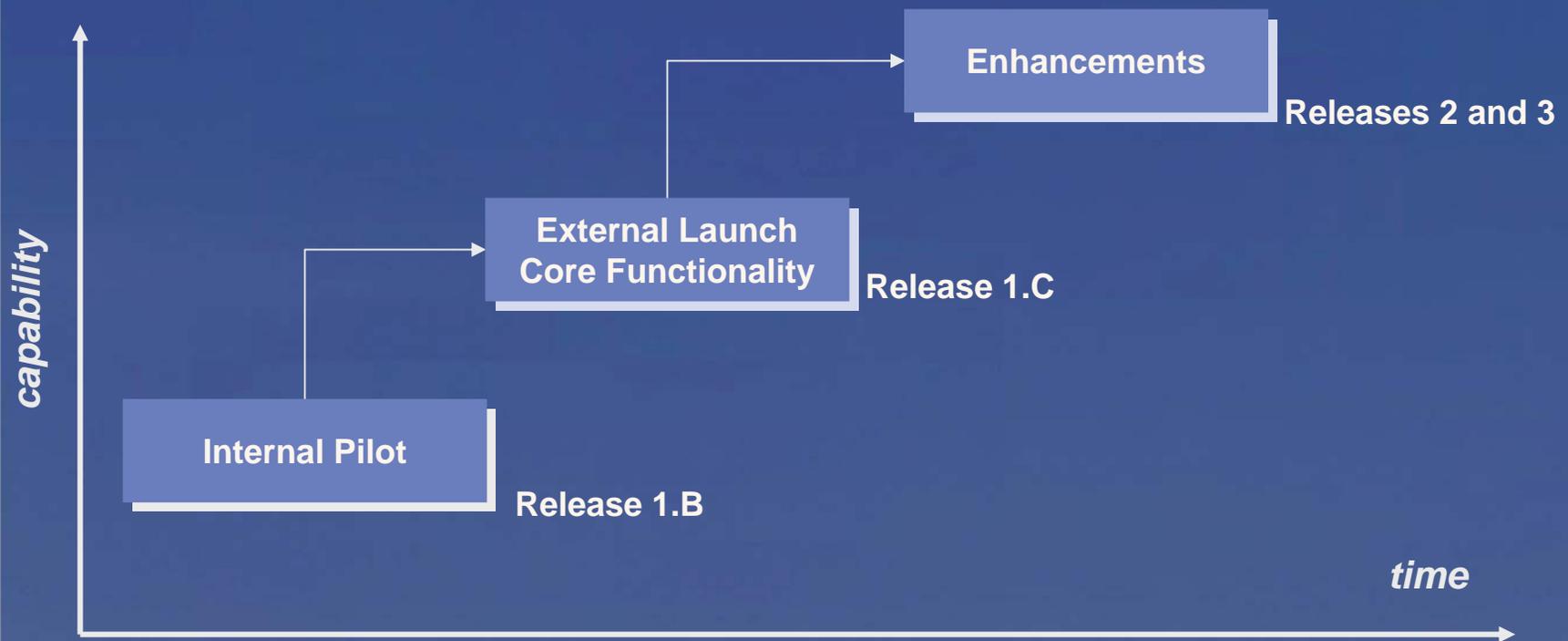
Release 1B Functionality

Internal pilot release – testing in April, 2007

- Ability for users to submit content and metadata
- Creation, collection and editing of content metadata using MODS
- Ability for users to access, search and request content using a Web based user interface
- Capability to combine content and metadata into information packages (SIP, AIP, ACP and DIP)
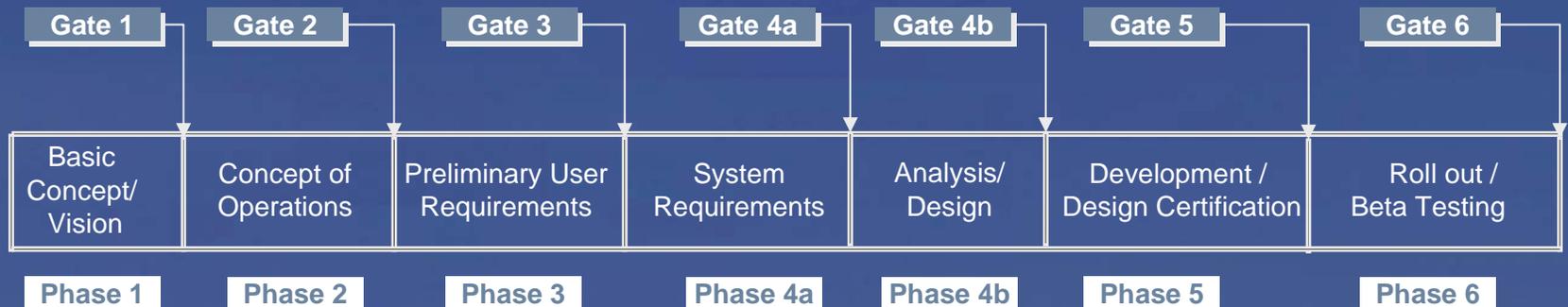
Release 1C Functionality

First external release – launch in second half of 2007

- Creation, collection, editing and sharing of content metadata supporting multiple standards (MARC and Dublin Core)

- Basic authenticity and integrity checks on submitted content submitted

- Verification that submitted content has not been altered and is not a duplicate

- Data exchange with ILS

- Ability to assign persistent name

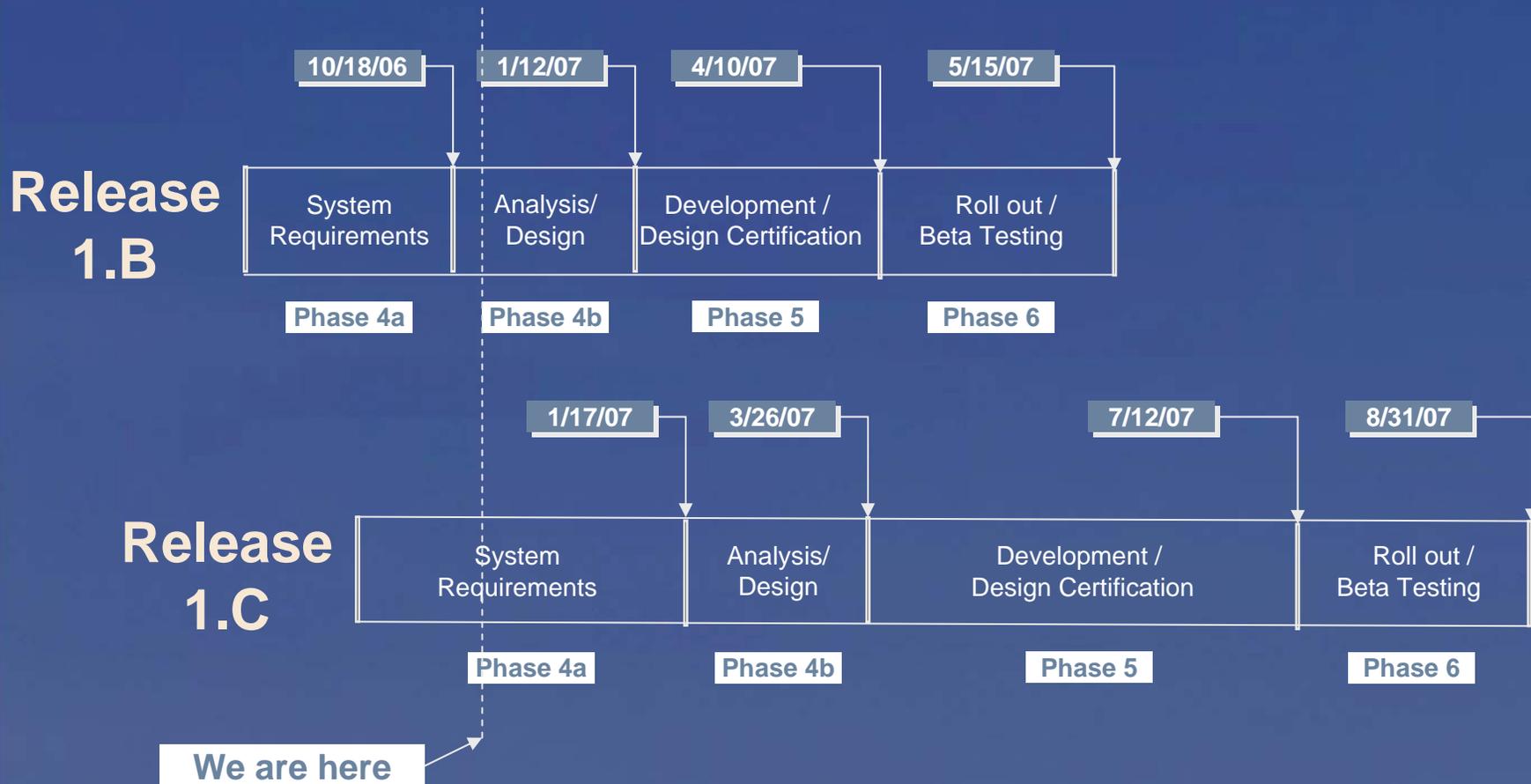- Basic preservation processing through refreshment

Program Management

GPO has implemented a phases and gates approach for managing the program.

Gate 1	Gate 2	Gate 3	Gate 4a	Gate 4b	Gate 5	Gate 6
Basic Concept/ Vision	Concept of Operations	Preliminary User Requirements	System Requirements	Analysis/ Design	Development / Design Certification	Roll out / Beta Testing
Phase 1	Phase 2	Phase 3	Phase 4a	Phase 4b	Phase 5	Phase 6

Phases 4a through 6 are structured to support each Release.

Release 1 Timeline

Release 1.B

| 10/18/06 | 1/12/07 | 4/10/07 | 5/15/07 |

| System Requirements | Analysis/ Design | Development / Design Certification | Roll out / Beta Testing |

Phase 4a Phase 4b Phase 5 Phase 6

Release 1.C

| 1/17/07 | 3/26/07 | 7/12/07 | 8/31/07 |

| System Requirements | Analysis/ Design | Development / Design Certification | Roll out / Beta Testing |

Phase 4a Phase 4b Phase 5 Phase 6

We are here

Upcoming Activities

- Conduct Release 1B and Release 1C Trade Study Reviews resulting in the selection of key system technologies.

- Develop FDsys Workflows and Use Cases.

- Continue outreach activities with stakeholders.

- Develop Beta Testing Plan for participants in release 1B pilot. Beta testing is a stage of system testing involving external exposure or operation of the system.

Summary

- The system requirements have been updated (version 3.0 is now available on the GPO website).

- Design activities are underway for Release 1B of FDsys. The first design review will be held in early November.

- Beta testing is expected to start in April.

Additional Information

Program documentation is available on the GPO website:

www.gpo.gov/projects/fdsys.htm

The FDsys Team

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