



The National Archives and Records Administration
Building the Archives of the Future
ERA @IOC



**An Update on the
Electronic Records Archives
(ERA) Program
July 25, 2008**

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ERA Communications
National Archives and Records Administration

Overview

- NARA's History, Mission, and Legal Contexts
- ERA Program History
- Electronic Records Challenges & Strategies
- ERA: Acquisition Strategies and Requirements
- Where we are today:
 - *ERA is Open for Business!*
 - *Training NARA staff to use ERA*

NARA's Mission

**To ensure access to records of three branches of the U.S. Government.
Records that:**

- Protect citizen's rights
- Hold Government officials accountable
- Facilitate historical understanding of our national experience



NARA's Legal Contexts

- **The Federal Records Act**
 - All agencies of the U.S. Government
- **The Presidential Records Act**
 - The President and Vice President
 - Officials and organizations which advise them
- **Donated Materials**
 - The Congress
 - The Supreme Court
 - Private persons

ERA Program History

- **1960s - Present** Over 40 years experience providing access to electronic records
- **1970** First electronic records transferred to NARA, begin preservation
- **1995** NARA is heading for mission failure
- **1998** ERA Research Partners
- **2000** ERA becomes an Official Program

Electronic Records

NARA's Challenges

- **Scope** The entire U.S. Federal Government
- **Obsolescence** Constantly Changing Technology
- **Access** Ability to view records over time
- **Volume** Large amounts of records arriving to NARA
- **Variety** Different/Complex Types of Records
- **Complexity** and Records Formats

Examples of Variety & Complexity

The 9-11 Commission Records

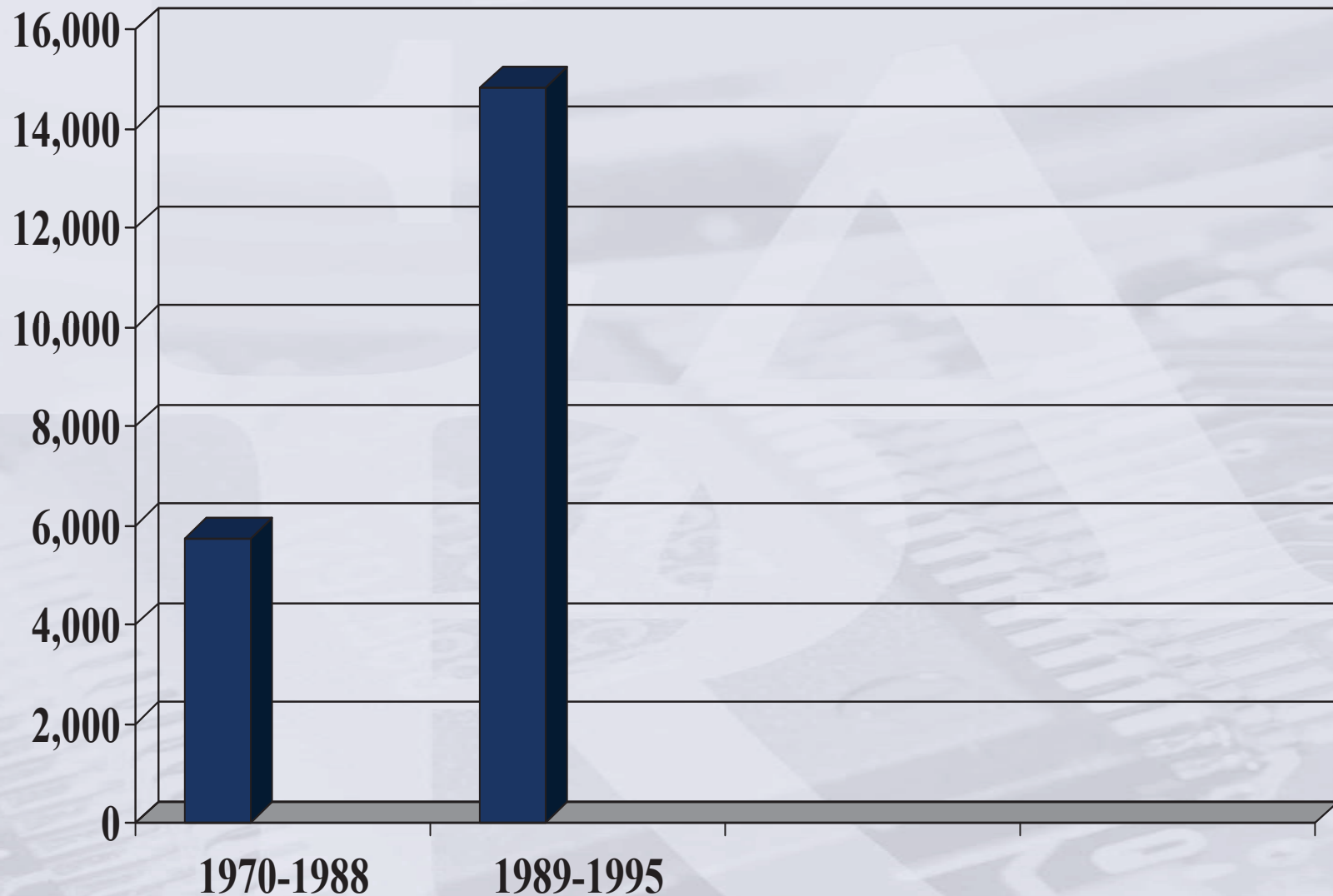
Office Automation Files

- Word processing documents
- Spreadsheets
- Presentations
- E-mail w/ attachments
- Scanned paper documents

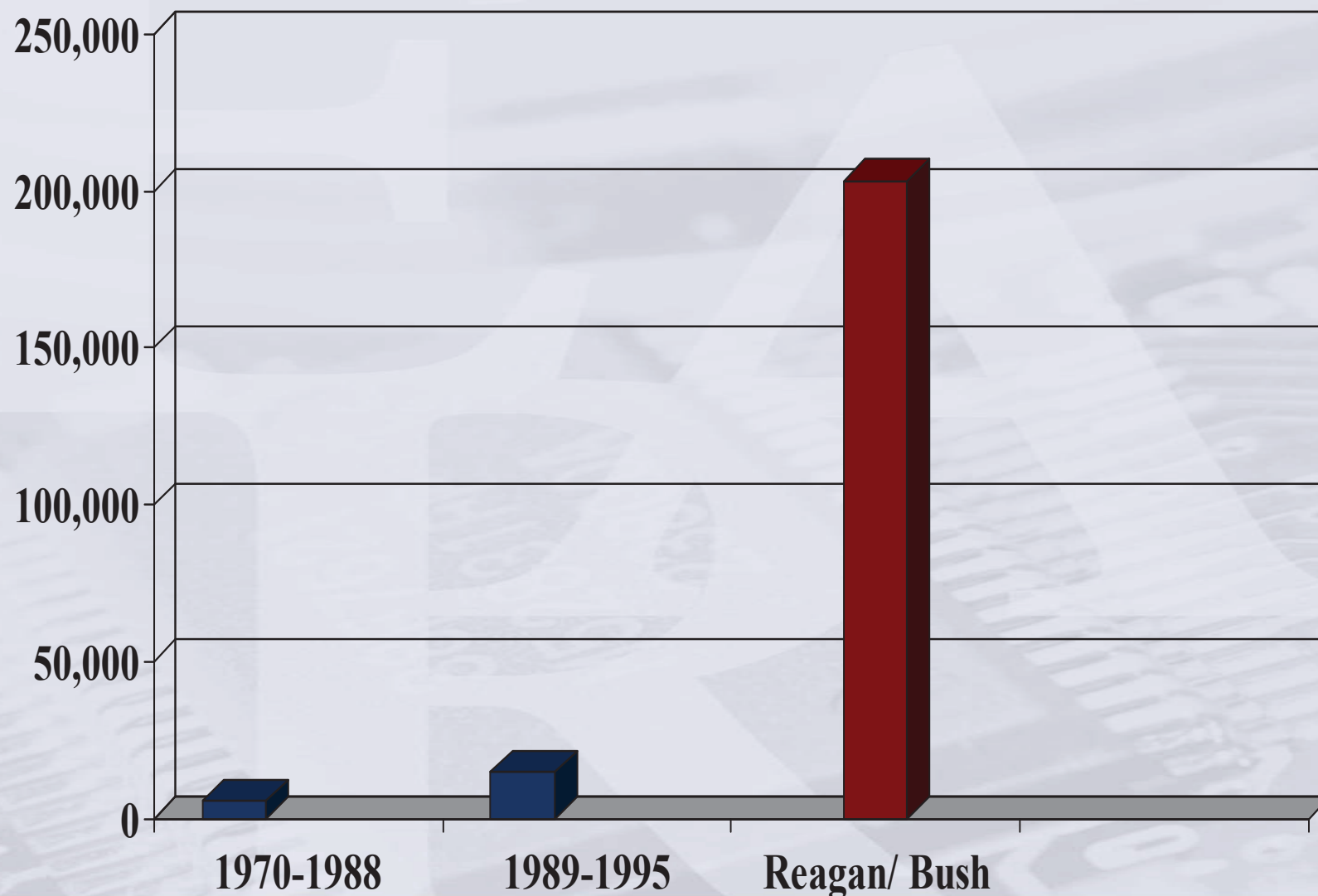
Complex Formats

- Databases
- Digital Photography
- Satellite Imagery
- **Digital audio files**
- **HDTV**
- **Web pages**
- **Geospatial Information Systems**

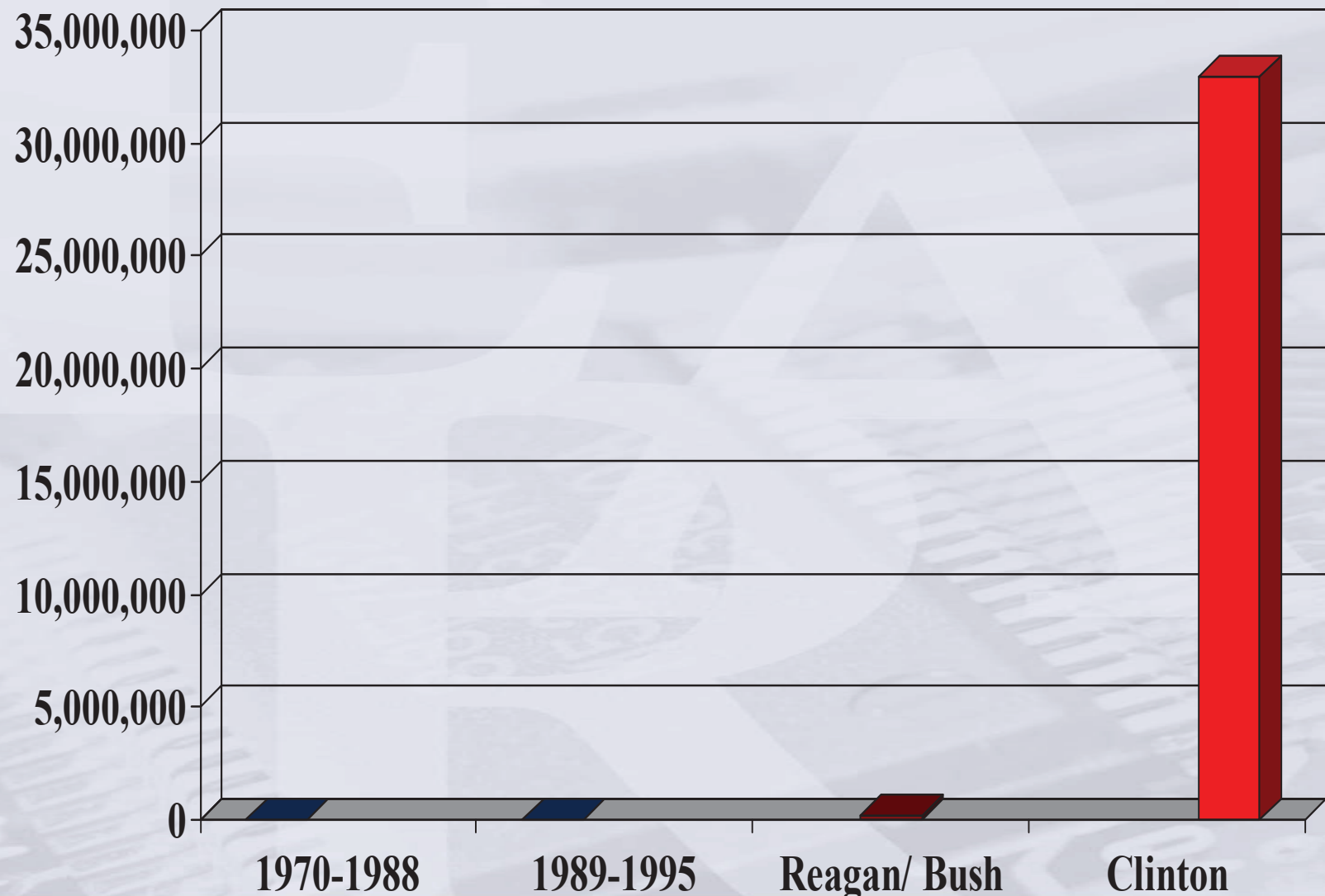
Scalability: Transfers of Digital Files to NARA (1970 – 1995)



Scalability: Transfers of Digital Files to NARA Reagan/Bush Presidential records



Scalability: Transfers of Digital Files to NARA Clinton Presidential Records



Building for the Future

1. Anticipate changes

- characteristics of electronic records,
- Preservation and Access technologies
- Researcher expectations and behaviors

2. Recognize those things that will not or should not change

- Archival science provides stable principles, concepts, requirements and understanding.
- NARA's mission and the functions

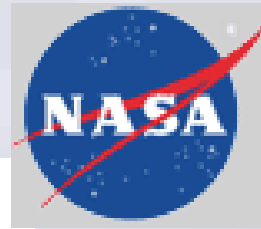
3. Make reasonable assumptions about the future

- Use of computers will continue to become more common
- Information use and Technology will continue to grow
- Decline in Information Technology costs
- The Internet will continue to grow

NARA's Strategic Response: The ERA Program

1. **Research** and exploratory development on technologies that offer promise for addressing electronic records challenges.
2. **Acquiring and building a system** that meets our requirements and our mission for NARA, the Presidential Libraries, and Federal Records Centers
3. Organizational and cultural **Change Management**

Some examples of ERA Research *Partnerships*



Data-Intensive Cyber
Environments (DICE)
Group



National
Science
Foundation



National Computational
Science Alliance



Global
Grid
Forum



National Coordination Office for
Networking and Information Technology
Research and Development



Army Research
Laboratory

The Library of Congress

DIGITAL LIBRARY
FEDERATION



InterPARES Project
International Research on Permanent Authentic Records in Electronic Systems

The ERA Research Prototype: Data Grid Technology



**Electronic Records Stacks
at Archives II**



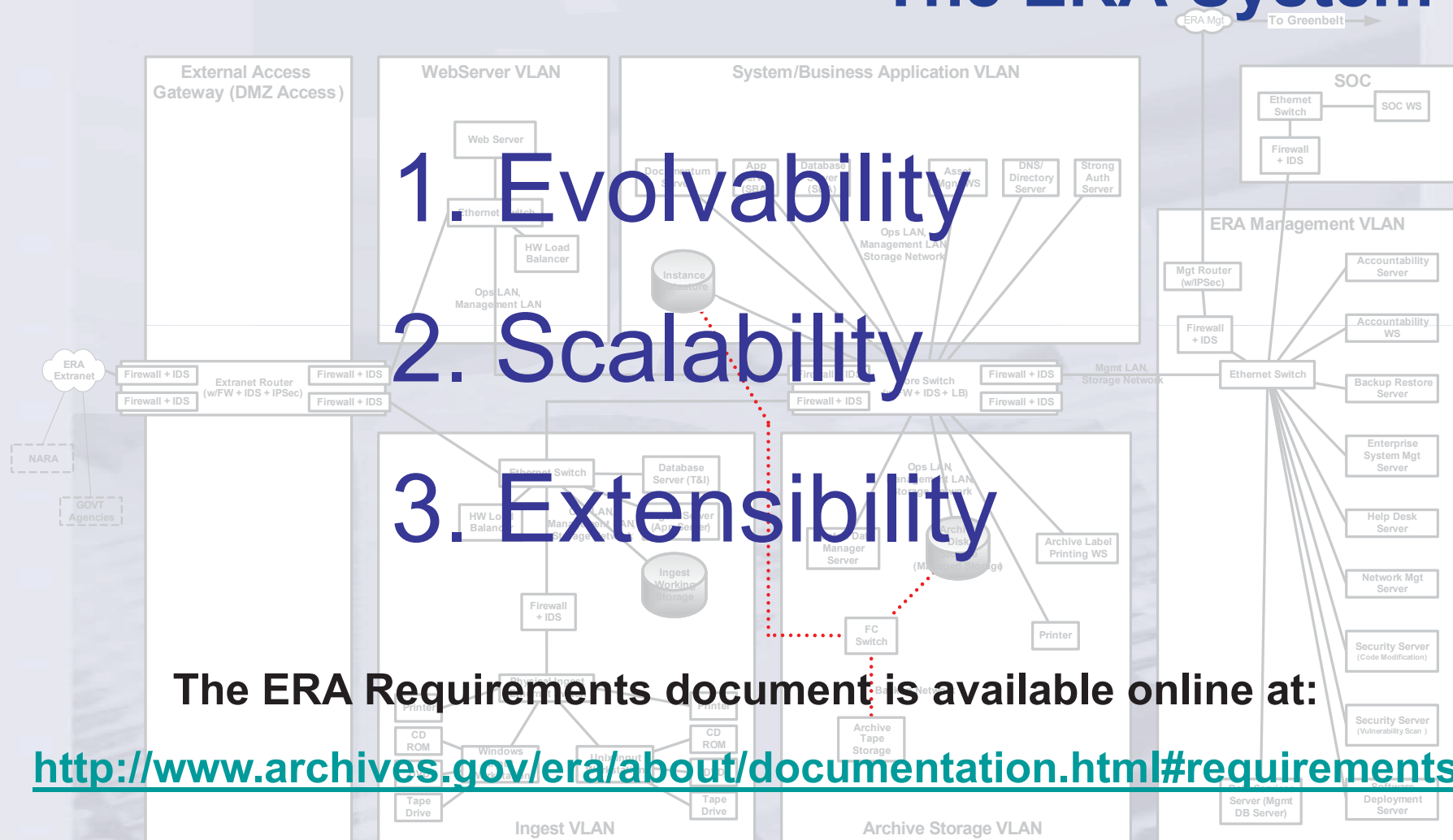
**The *ERA Transcontinental
Persistent Archive Prototype (TPAP)*
-- or NARA's "Grid"**

Fundamental Requirements for The ERA System

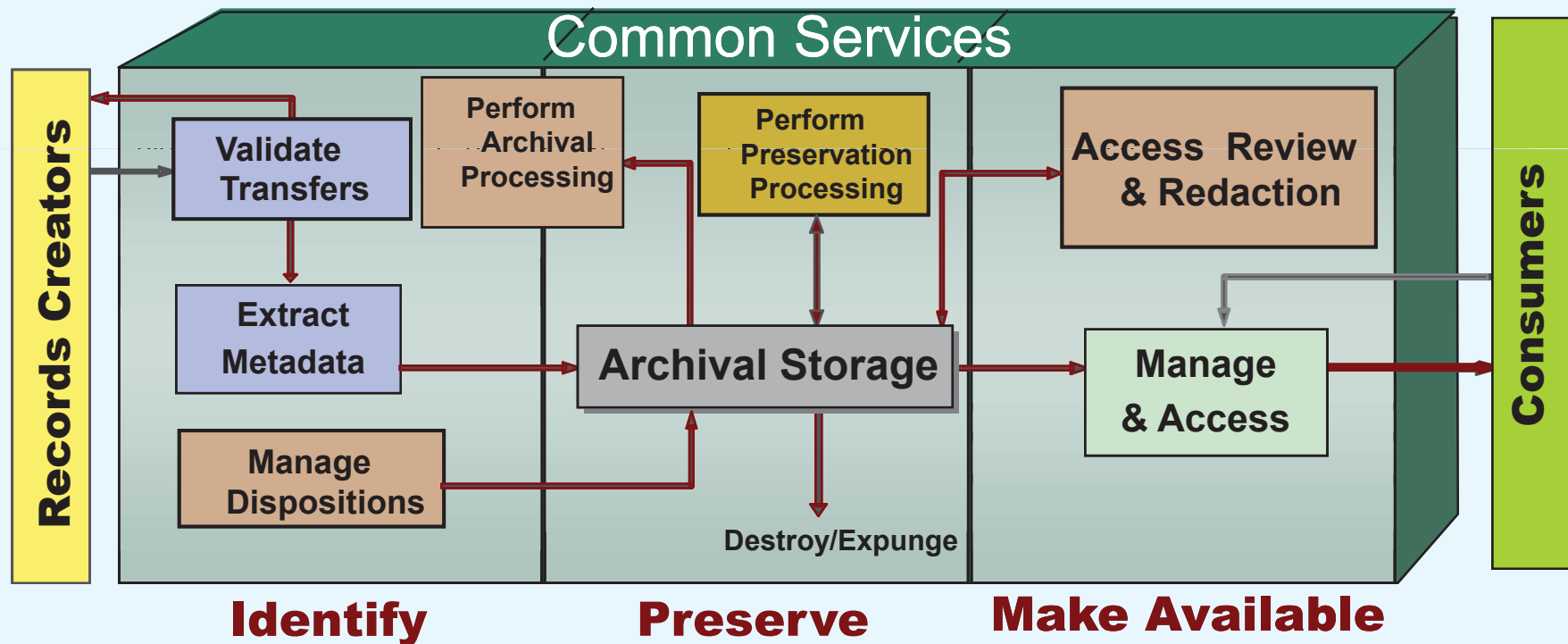
1. Evolvability
2. Scalability
3. Extensibility

The ERA Requirements document is available online at:

<http://www.archives.gov/era/about/documentation.html#requirements>



The ERA System is based on a Service-oriented architecture





ERA will be a set of NESTED, mini-systems

Outer system:

- lifecycle management of records of all types

Inner Electronic Records System:

- Ingest, preservation, disposition, and access to electronic records

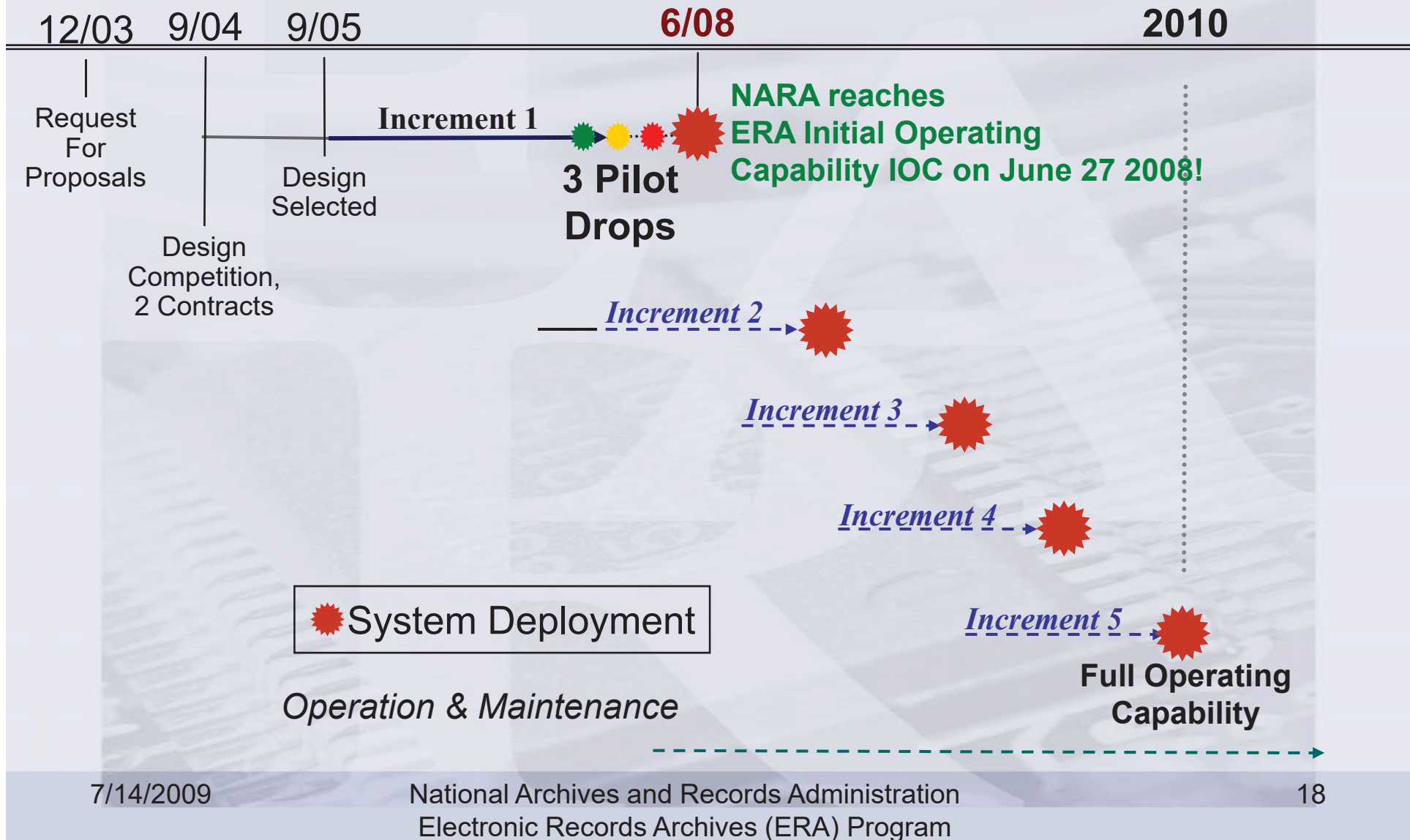
Search & Preservation Frameworks

- Support a variety of different approaches to different needs.

Archival “mini-systems”

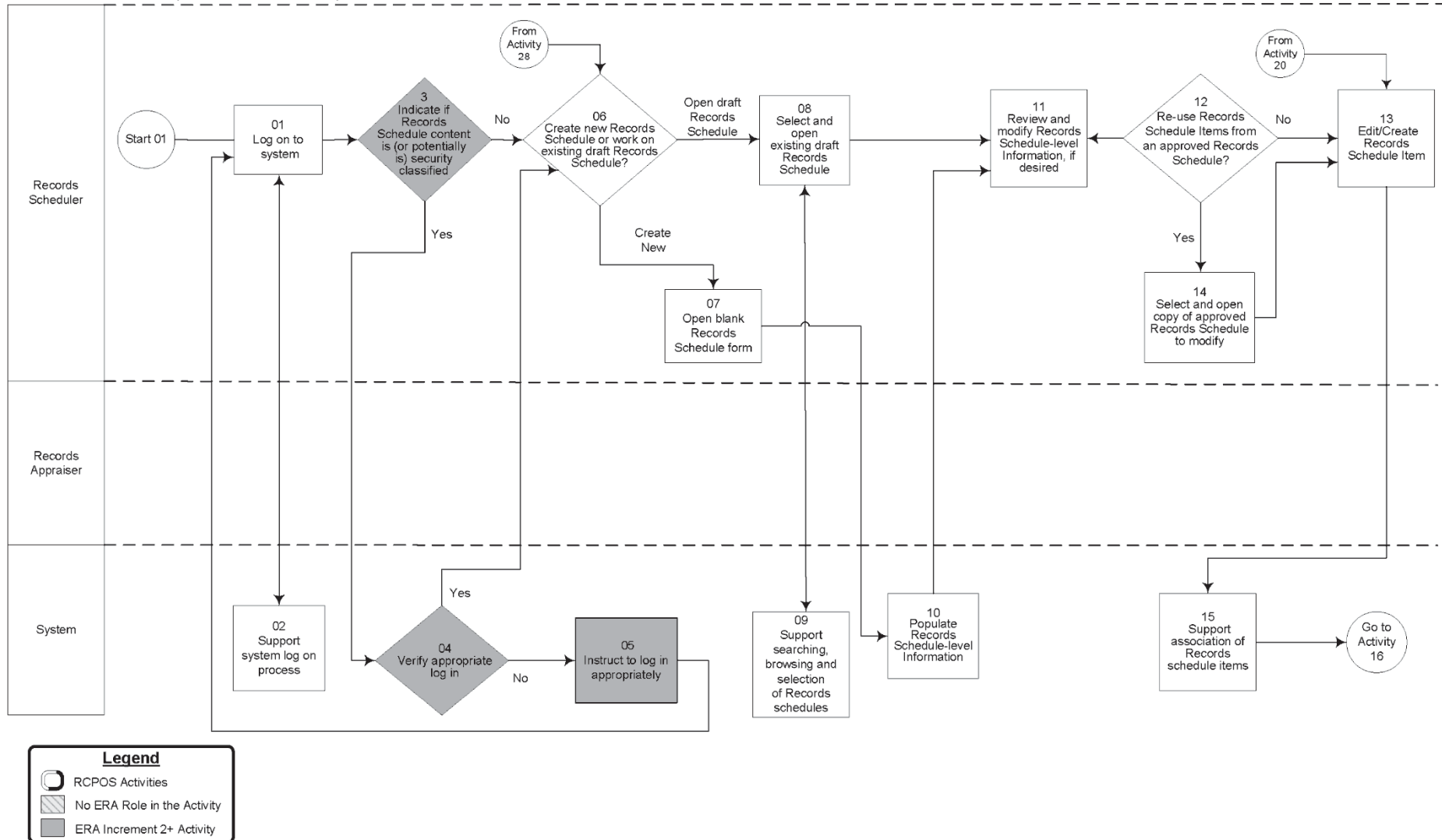
- Specific, systematic management for each series or aggregate of electronic records.

Acquiring and Building ERA in Increments

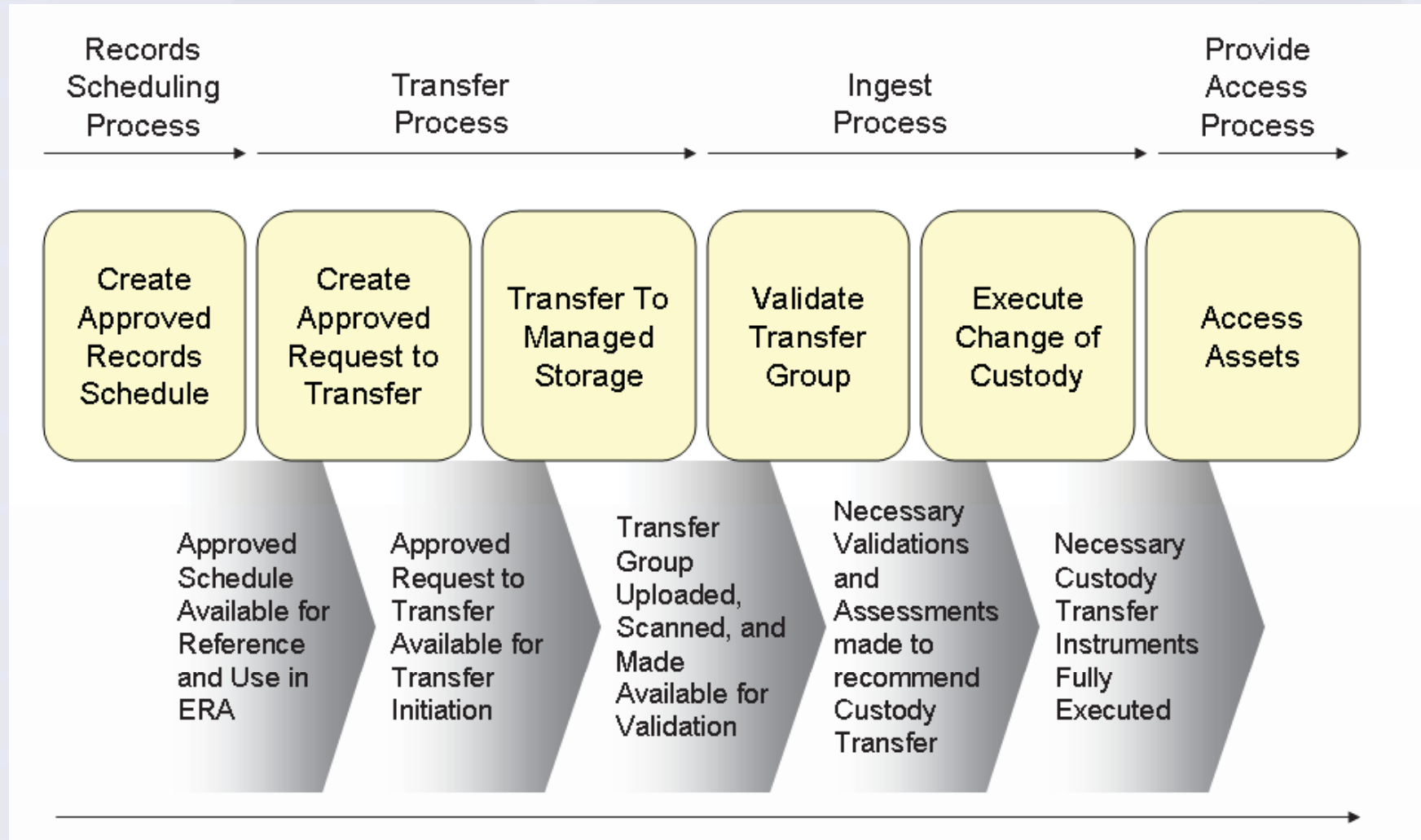


Business Process Re-engineering: Studying The Lifecycle of a Record

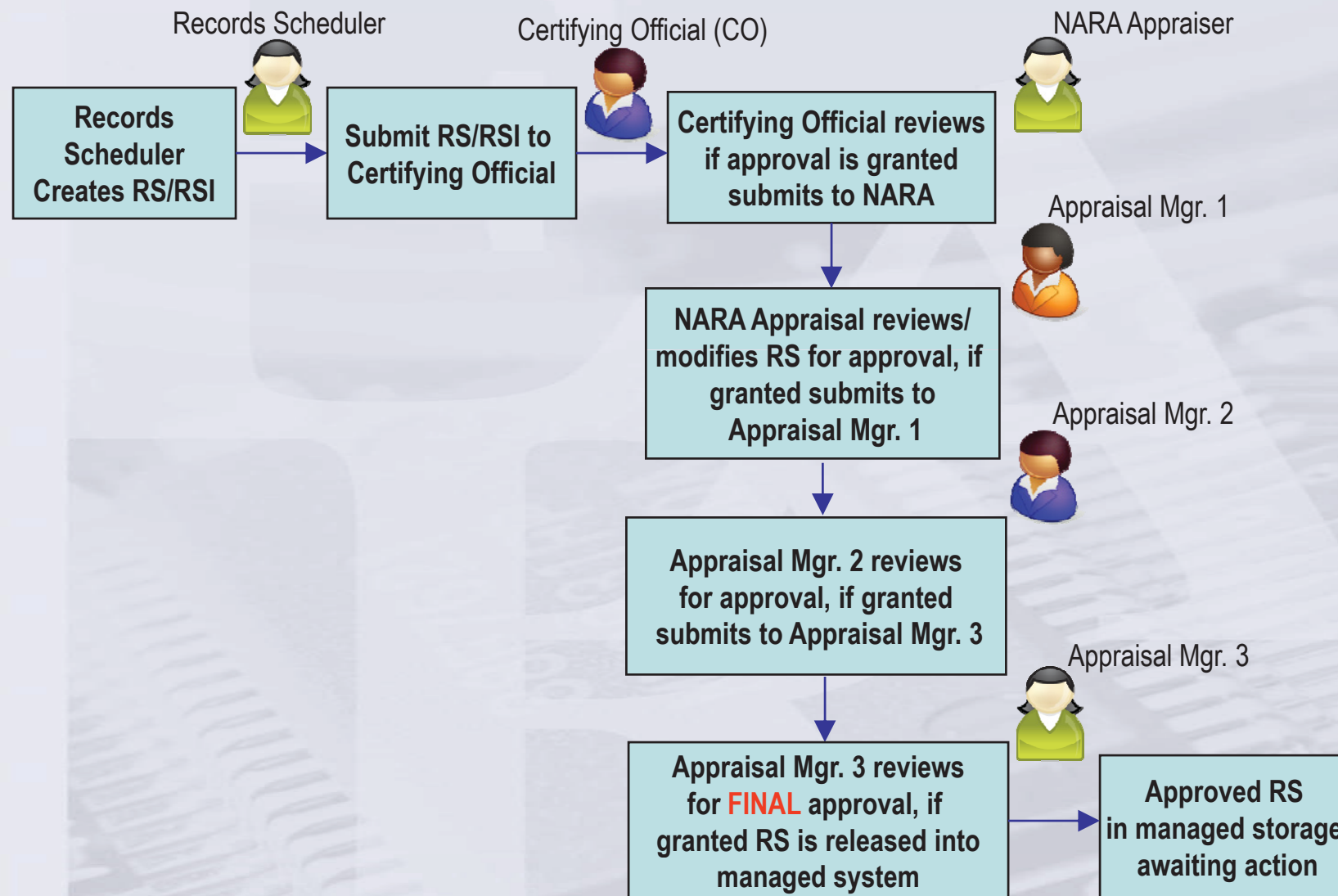
1.01 Creation and Submission of Records Schedule (page 1 of 2)
(version 4.2, Jan. 27 2006)



ERA Functional Flow



Create and Approve a Records Schedule



User Roles

Records Scheduler (non-NARA staff):

- **Prepares and submits the Records Schedule** to the Certifying Official.

Records Scheduler NARA (NARA staff):

- Authorized to create and submit **Records Schedules** for Certification on behalf of an Agency or
- Authorized to create and submit **Legacy Schedules** for Certification on behalf of NARA.

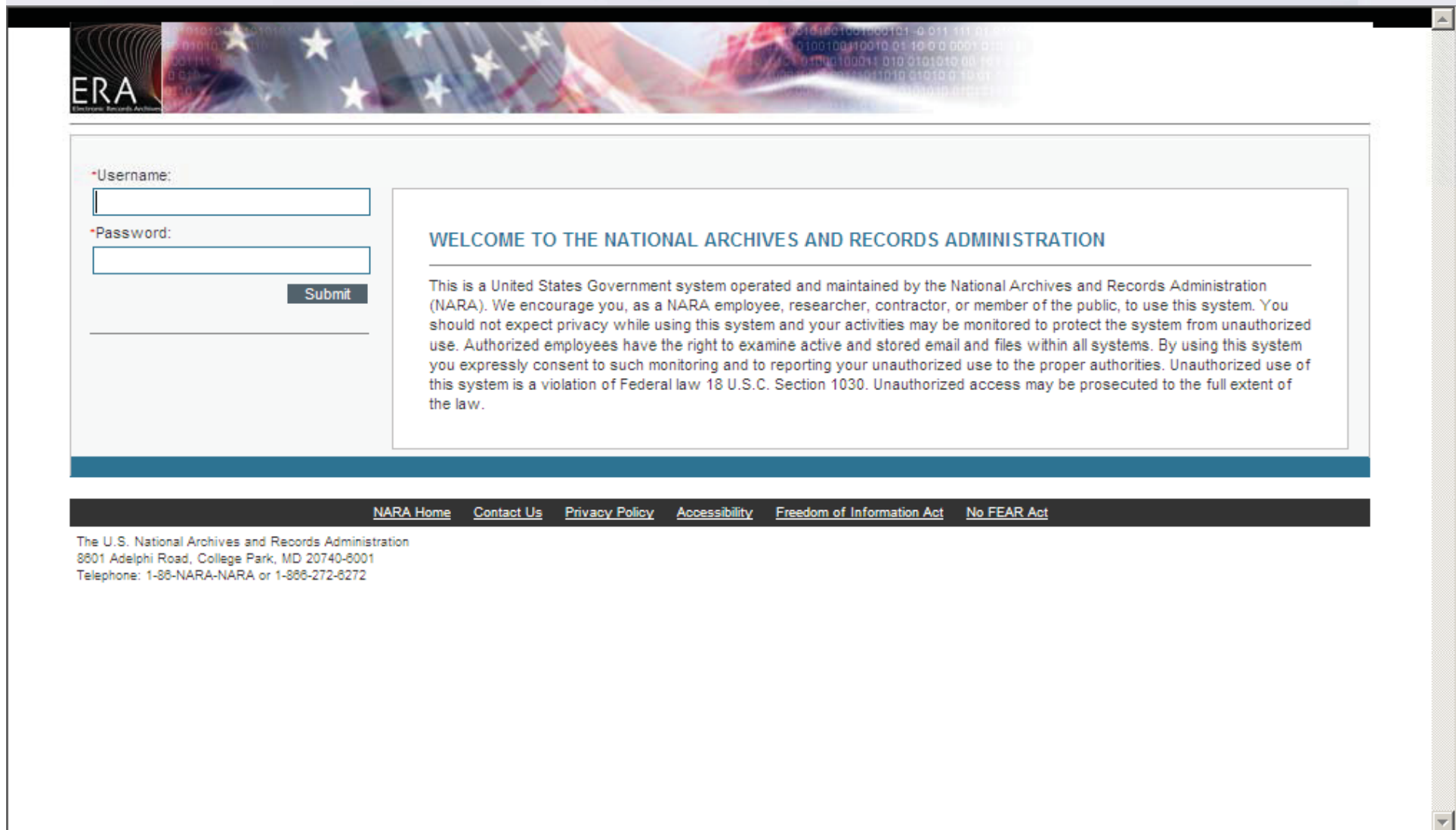
Certifying Official (Federal Agency Representatives):

- **Designates the official status** of the Records Schedule before submitting it to NARA for review and approval.

Records Appraiser (NARA Officials):

- **Assesses agency records** with respect to informational value, artifactual value, evidential value, associational value, administrative value;
- Recommends which records should be accessioned into NARA's legal custody and which records should be disposed of by the Transferring Entity after a period of retention specified in the Records Schedule.

The ERA Log-On Screen



The screenshot shows the ERA Log-On Screen. At the top is a banner with the ERA logo and a stylized American flag. Below the banner is a login form with fields for Username and Password, and a Submit button. To the right of the form is a welcome message from the National Archives and Records Administration (NARA). At the bottom of the page is a navigation bar with links to NARA Home, Contact Us, Privacy Policy, Accessibility, Freedom of Information Act, and No FEAR Act. Below the navigation bar is contact information for the U.S. National Archives and Records Administration.

ERA
Electronic Records Archives

*Username:

*Password:

WELCOME TO THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

This is a United States Government system operated and maintained by the National Archives and Records Administration (NARA). We encourage you, as a NARA employee, researcher, contractor, or member of the public, to use this system. You should not expect privacy while using this system and your activities may be monitored to protect the system from unauthorized use. Authorized employees have the right to examine active and stored email and files within all systems. By using this system you expressly consent to such monitoring and to reporting your unauthorized use to the proper authorities. Unauthorized use of this system is a violation of Federal law 18 U.S.C. Section 1030. Unauthorized access may be prosecuted to the full extent of the law.

[NARA Home](#) [Contact Us](#) [Privacy Policy](#) [Accessibility](#) [Freedom of Information Act](#) [No FEAR Act](#)

The U.S. National Archives and Records Administration
8601 Adelphi Road, College Park, MD 20740-8001
Telephone: 1-86-NARA-NARA or 1-866-272-6272

The ERA Records Schedule *Workbench*

Welcome Derica Carty

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ERA Workbench

[Customize My Portal](#)

Notifications		
Title	Created Date	Created By
Records Schedule DAL-0029-2008-0001 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0001 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0001 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0001 approved.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0001 approved.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0001 approved.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0002 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0002 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0002 certified.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0002 approved.	06/18/2008	ERA System
Records Schedule DAL-0029-2008-0002 approved.	06/18/2008	ERA System
Records Schedule DAL-0059-2008-0001 certified.	06/18/2008	ERA System
Records Schedule DAL-0059-2008-0001 certified.	06/18/2008	ERA System

Inbox					
ID #	Type	Agency	Created By	Status	Due Date
TR-0029-2008-0008	TR	Bureau of the Census	Karuna.Sodhi	Draft	06/26/2008
TR-0241-2008-0004	TR	Patent and Trademark Office	Karuna.Sodhi	Draft	06/26/2008
TR-0241-2008-0005	TR	Patent and Trademark Office	Derica.Carty	Draft	06/26/2008
TR-0241-2008-0006	TR	Patent and Trademark Office	Derica.Carty	Proposed	07/01/2008
TR-0241-2008-0007	TR	Patent and Trademark Office	Derica.Carty	Draft	06/27/2008
TR-0029-2008-0001	TR	Bureau of the Census	kenneth.kang	Approved	07/18/2008
TR-0241-2008-0002	TR	Patent and Trademark Office	kenneth.kang	Approved	07/18/2008
TR-0059-2008-0003	TR	Department of State	kenneth.kang	Approved	07/18/2008
TR-0029-2008-0002	TR	Bureau of the Census	kenneth.kang	Approved	07/18/2008
DAL-0059-2008-0003	RS	Department of State	Jerome.Nashorn	Proposed	06/21/2008
TR-0059-2008-0001	TR	Department of State	kenneth.kang	Approved	07/18/2008
TR-0241-2008-0001	TR	Patent and Trademark Office	kenneth.kang	Approved	07/18/2008

Help

[Help - Main](#)
[FAQ](#)
[Glossary](#)

7/14/2009

National Archives and Records Administration
Electronic Records Archives (ERA) Program

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The e-115: Records Schedule

Records Schedule

* Required fields

General Info					
General					
*Records Schedule ID:		*Internal agency concurrences will be provided:	<input type="text"/>		
Schedule Subject:	<input type="text"/>	*Record Group:			
*Agency or Establishment:	<input type="text"/>	Records Schedule applies to:			
*Legacy Data:	<input type="text"/>	<input checked="" type="radio"/> Major Subdivision <input type="radio"/> Agency-wide <input type="radio"/> General Records			
Default Schedule:	<input type="checkbox"/>	Schedule			
Status:		*Major Subdivision:	<input type="text"/>		
		Minor Subdivision:	<input type="text"/>		

Background	
Background Information:	<input type="text"/>

GAO Concurrence		Records Scheduler			
<input checked="" type="radio"/> Not Required	<input type="radio"/> Requested	<input type="radio"/> Received	*First Name	*Last Name	*Title
Items:			<input type="text"/>	<input type="text"/>	<input type="text"/>

Functions					
Contact Persons					
<input checked="" type="checkbox"/>	First Name	*Last Name	Title	*Phone	Email
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Save Cancel

Capturing Information about the records

7/14/2009

National Archives and Records Administration
Electronic Records Archives (ERA) Program

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Request to Transfer Records to NARA using ERA

1 →

2 →

3 →

4 →

5 →

Required fields

General Info	
*Transfer Request ID:	
*Creating Agency/Establishment:	
Major Subdivision:	
Minor Subdivision:	
*Record Group Number:	
*Transfer Group Description:	
*Records Schedule Item ID:	Attach Record Schedule Item
Agency Manual ID:	
Agency File Code:	
LTI:	
*Legacy Data:	
Legacy Transaction Number:	
*Security Scan:	No
Status:	

Disposition Authority	
Records Schedule Item Title:	
*Inclusive Date:	From: (mm/dd/yyyy) To: (mm/dd/yyyy)
Series Title:	
Cut-off Instructions:	

Transferring Agency Official	
*First Name	*Last Name
John	R
*Title	*Email
Records Officer, Department of State	john.r.officer@state.gov
*Phone	
202-123-4567	

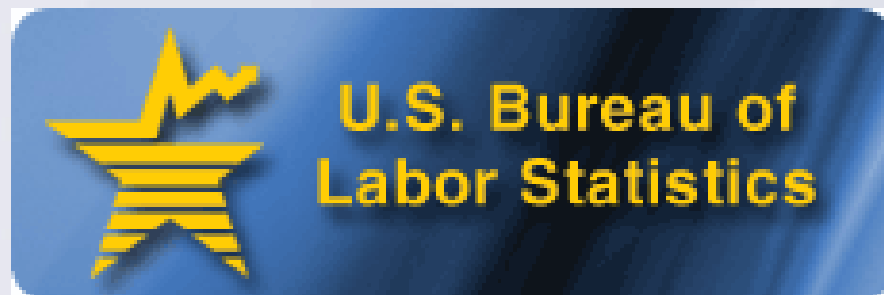
Access Restrictions	
*Access Restrictions:	
Specific Access Restrictions:	
Security Classification:	
Special Markings:	
Statutory Citation:	
Access Restriction Note:	
Privacy Act Notice Number:	

Record Type	
*General Record Type:	
Disposition Code:	
Freeze Code:	
Level of Service:	

Save Cancel

The first four ERA Pilot Agencies

UNITED STATES PATENT AND TRADEMARK OFFICE



Immediate Next Steps

- **Summer 2008:** Move 3.5 million computer files to ERA
- **September 2008:** Begin taking in records from the 4 selected federal agencies
- **January 2009:** ERA is ready for the records from the administration of George W. Bush

Your Contact in the ERA Program Office

ERA Communications

Rita.Cacas@nara.gov
(301-837-1564)

The ERA Web site is:
<http://www.archives.gov/era>