

Peering into the Future of Archives

Cyberelephants / Cyberblindness?

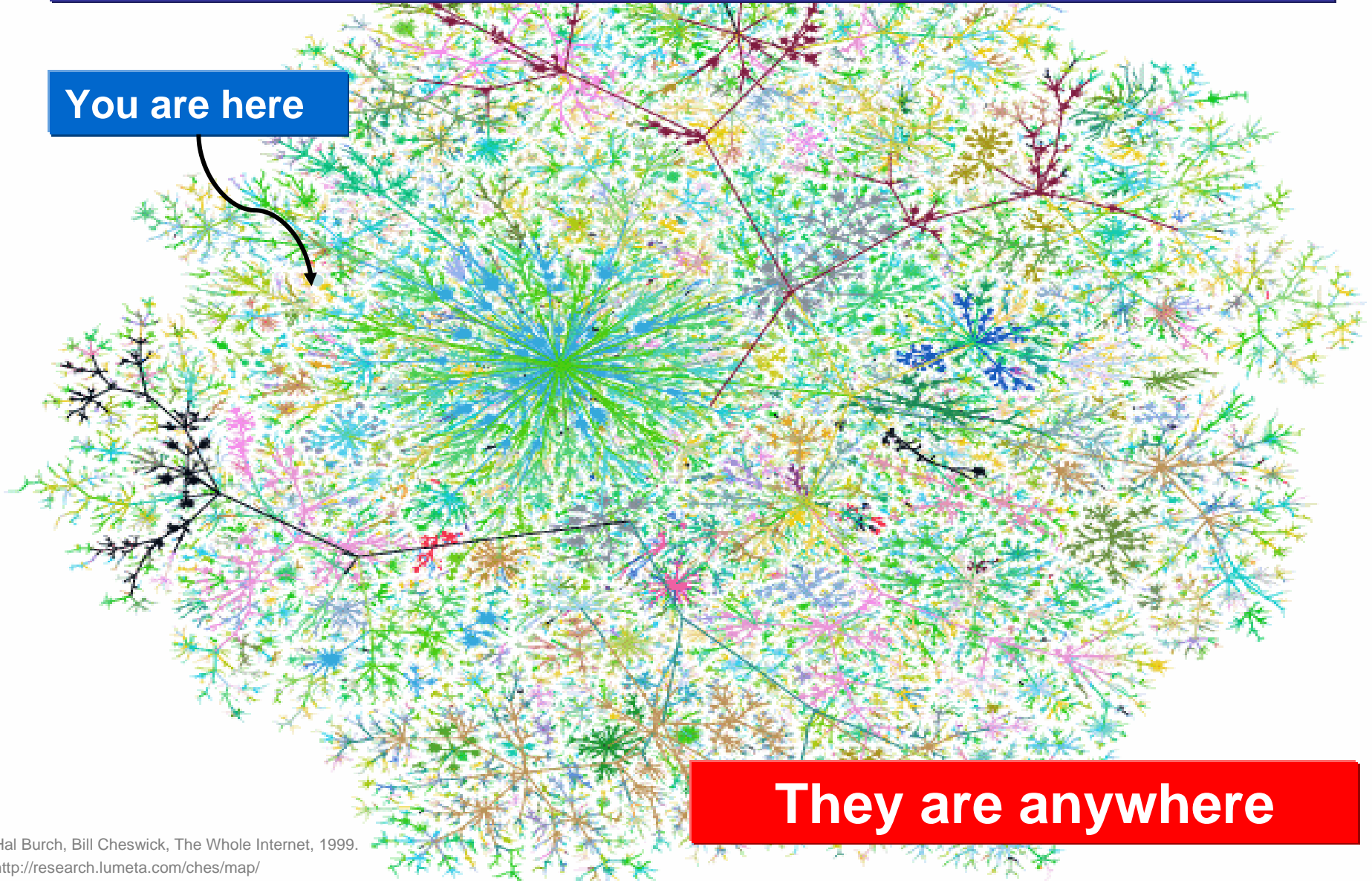


Ken Thibodeau, Director
Electronic Records Archives
Program Management Office
National Archives and Records
Administration

August 22, 2003

Security View of the Internet

You are here



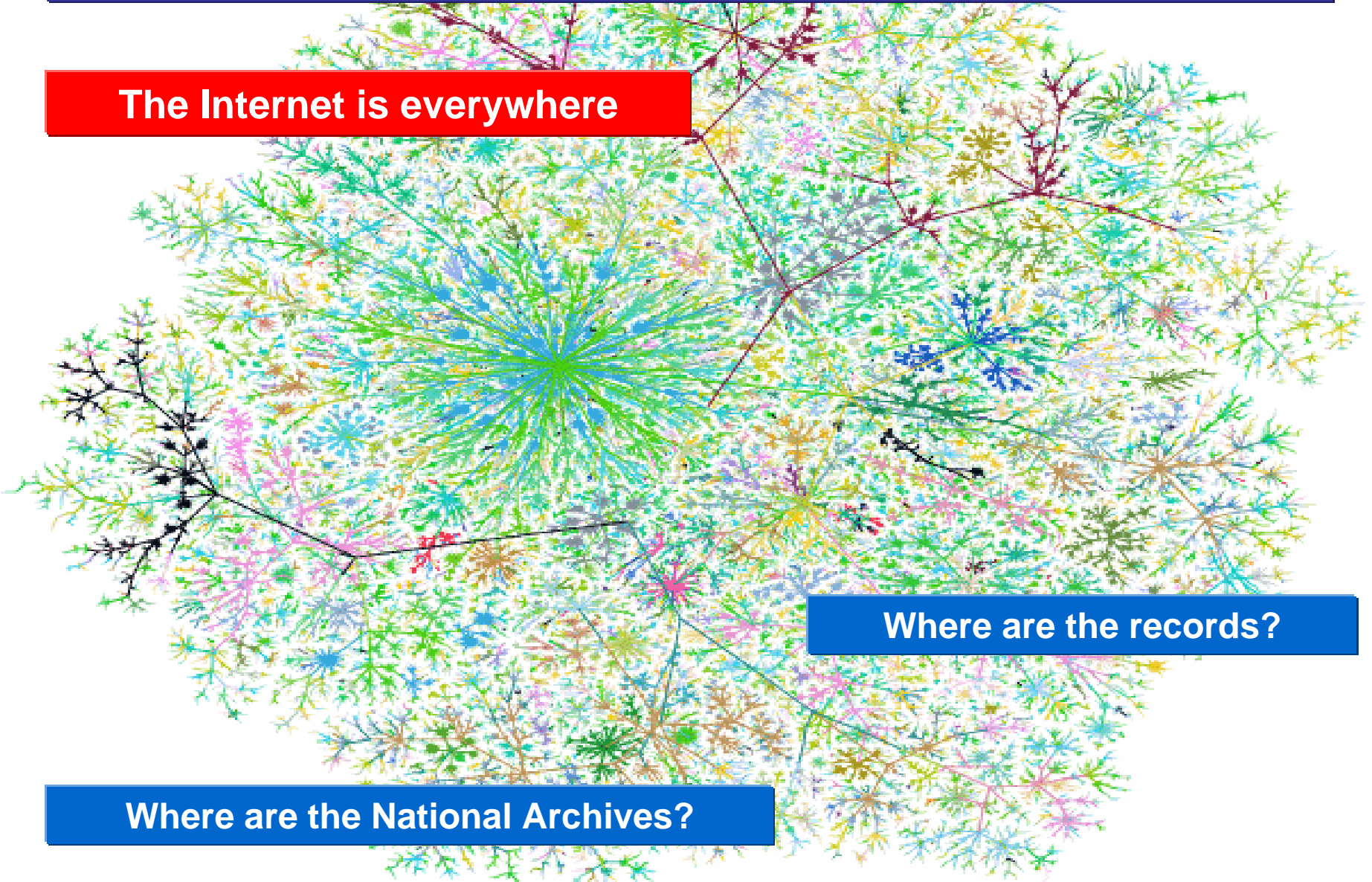
They are anywhere

Archival View of the Internet

The Internet is everywhere

Where are the records?

Where are the National Archives?



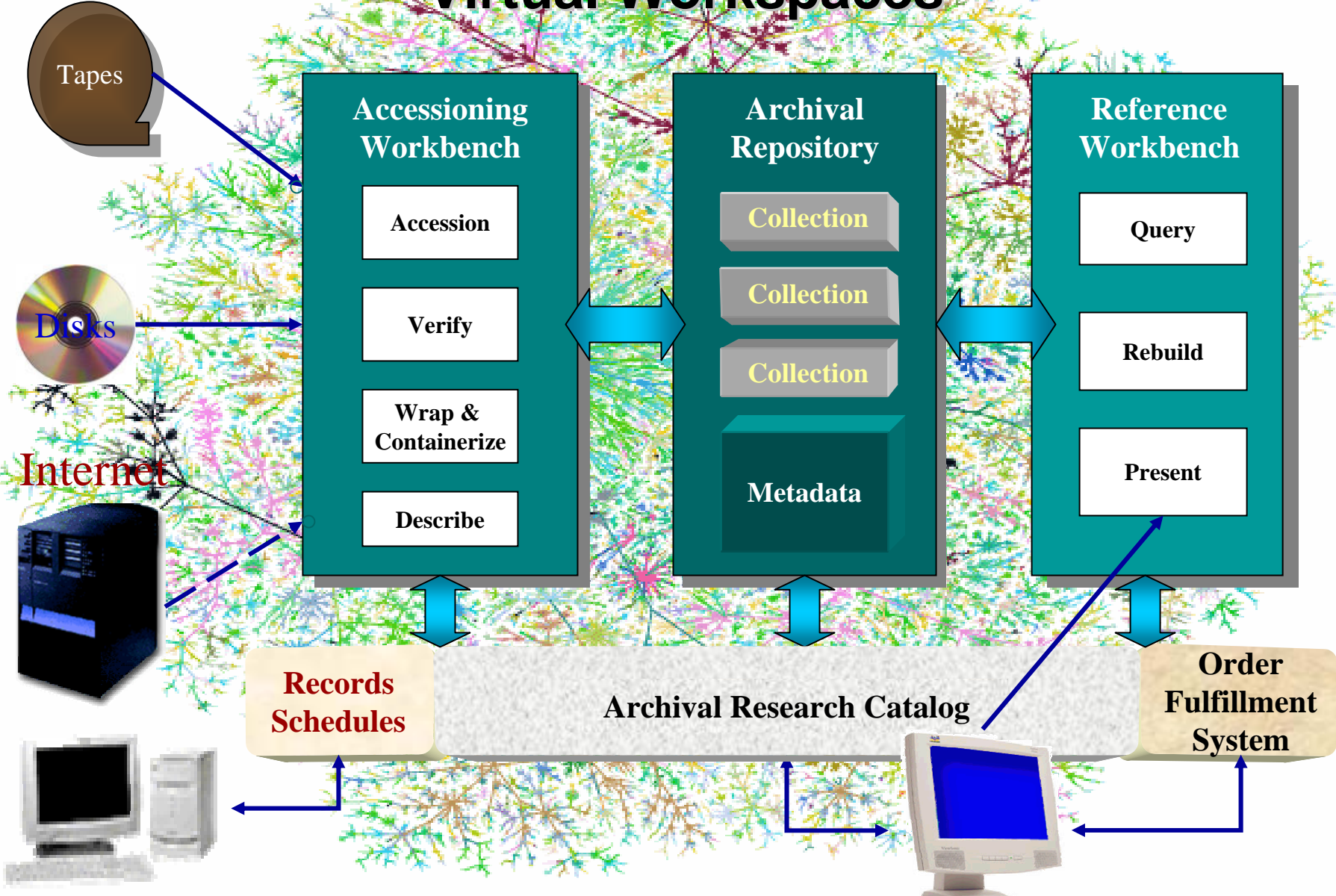
NARA's Vision for ERA

"The Electronic Records Archives will authentically preserve and provide access to any kind of electronic record, free from dependency on any specific hardware or software, enabling NARA to carry out its mission into the future."

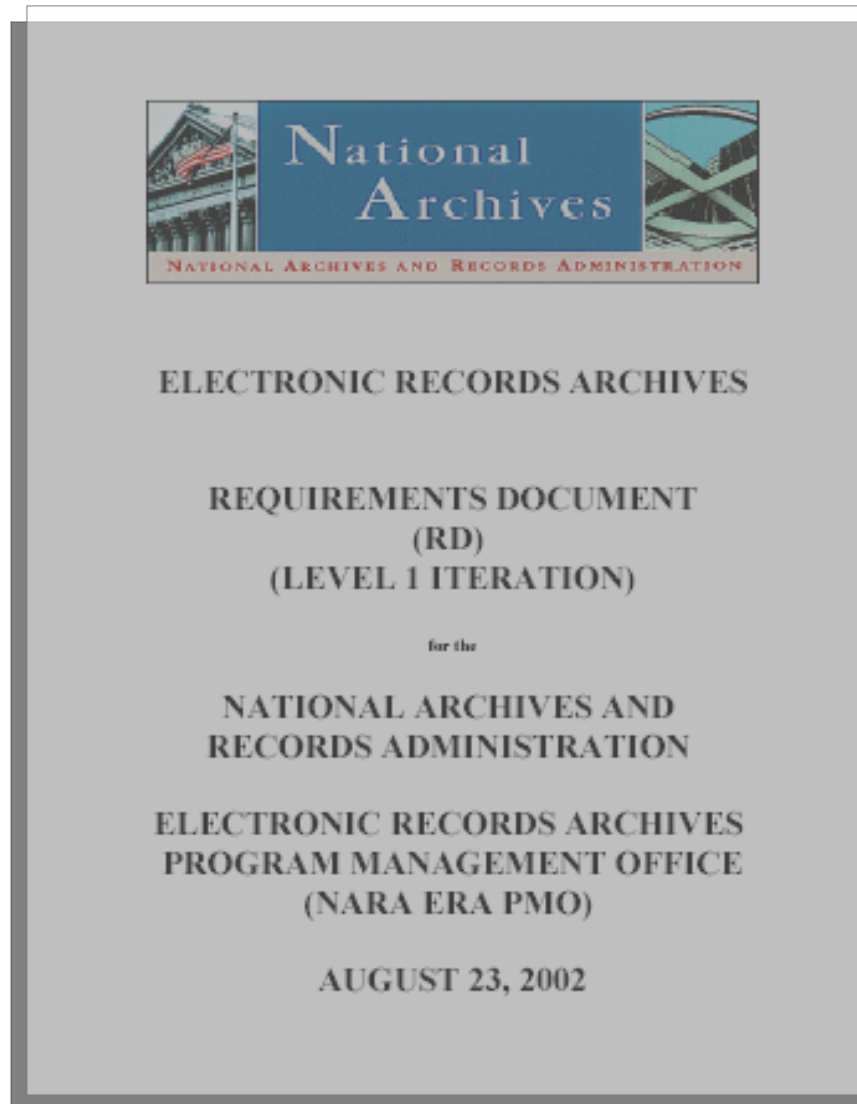
NARA's Vision for ERA

- We will develop and maintain the technical capability to capture, preserve, describe, access and appropriately dispose of any government electronic record.
- We will manage a coherent, nationwide, and sustainable system for permanent electronic records of the Federal Government.
- We will ensure that anyone, at anytime, from any place, has access to the best tools to find and use the records we preserve.

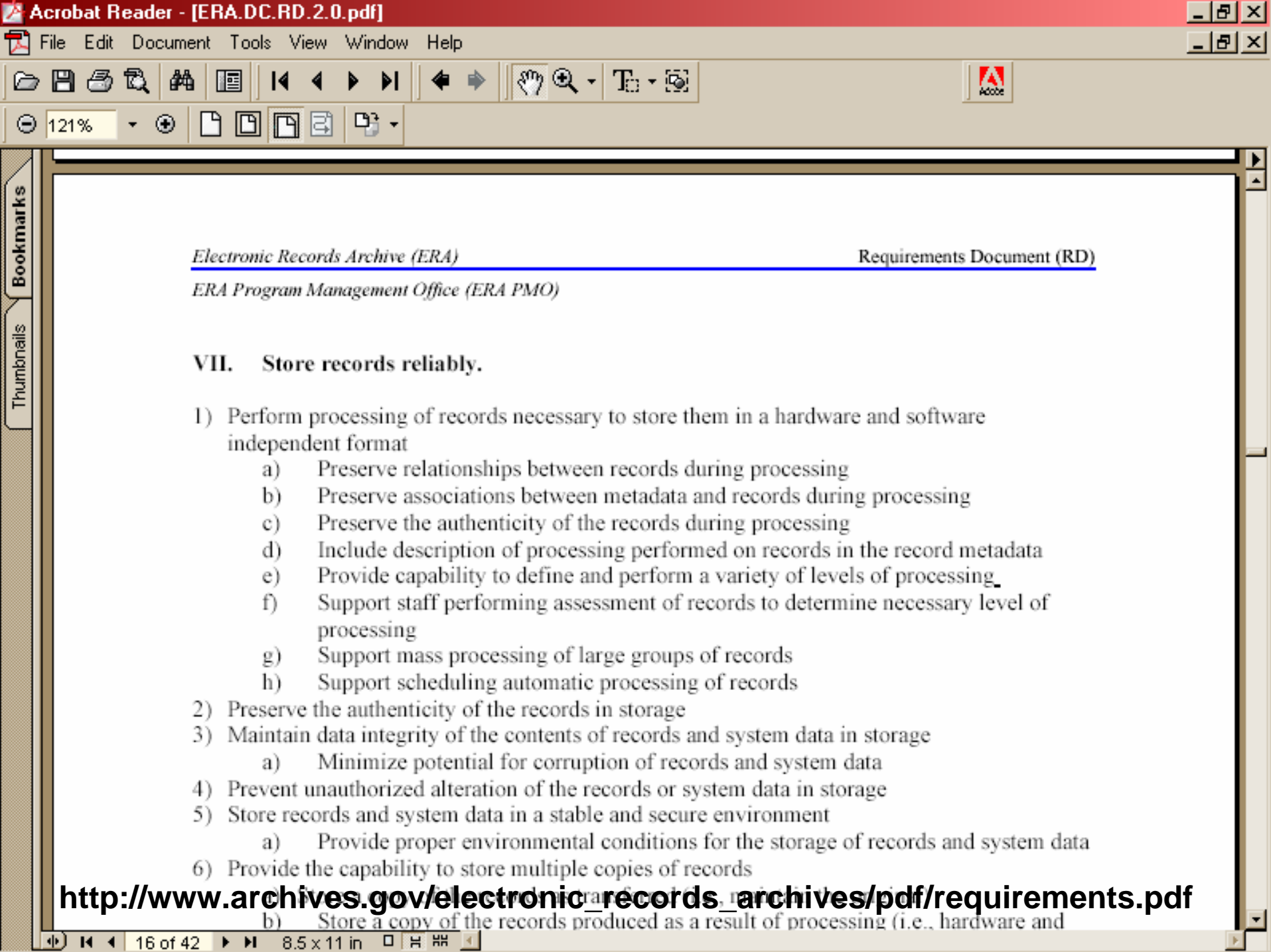
Electronic Records Archives: Virtual Workspaces



Atomistic View of ERA



http://www.archives.gov/electronic_records_archives/pdf/requirements.pdf



VII. Store records reliably.

- 1) Perform processing of records necessary to store them in a hardware and software independent format
 - a) Preserve relationships between records during processing
 - b) Preserve associations between metadata and records during processing
 - c) Preserve the authenticity of the records during processing
 - d) Include description of processing performed on records in the record metadata
 - e) Provide capability to define and perform a variety of levels of processing
 - f) Support staff performing assessment of records to determine necessary level of processing
 - g) Support mass processing of large groups of records
 - h) Support scheduling automatic processing of records
- 2) Preserve the authenticity of the records in storage
- 3) Maintain data integrity of the contents of records and system data in storage
 - a) Minimize potential for corruption of records and system data
- 4) Prevent unauthorized alteration of the records or system data in storage
- 5) Store records and system data in a stable and secure environment
 - a) Provide proper environmental conditions for the storage of records and system data
- 6) Provide the capability to store multiple copies of records
 - b) Store a copy of the records produced as a result of processing (i.e., hardware and

http://www.archives.gov/electronic_records_archives/pdf/requirements.pdf



Federal Computer Week

Committee approves records budget

BY [Diane Frank](#)
Aug. 13, 2003

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The House Appropriations Committee approved a \$22 million increase in the fiscal 2004 budget for the National Archives and Records Administration's Electronic Records Archives program.

Although President Bush requested \$38 million for the electronic records project in fiscal 2004, the House committee settled on \$35.9 million. Either way, the budget would be more than doubled from fiscal 2003, because the program is now building its first component, after years of research and development.

Archives officials want a long-term solution for electronic

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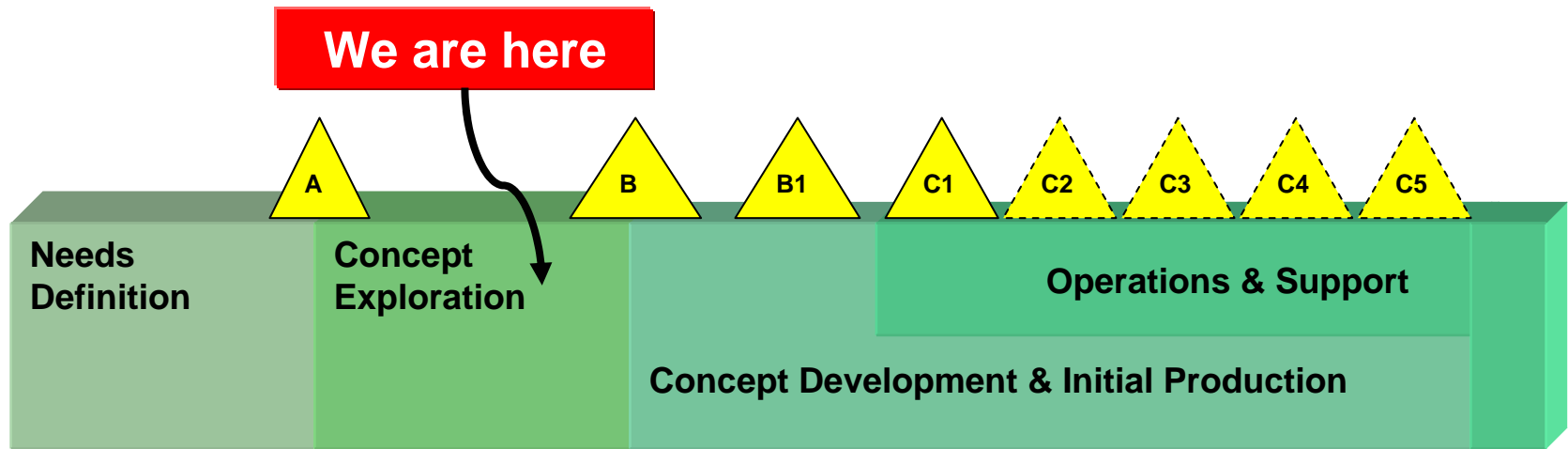
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[NARA Electronic
Records Archives
program](#)

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Computer Week, July 14,
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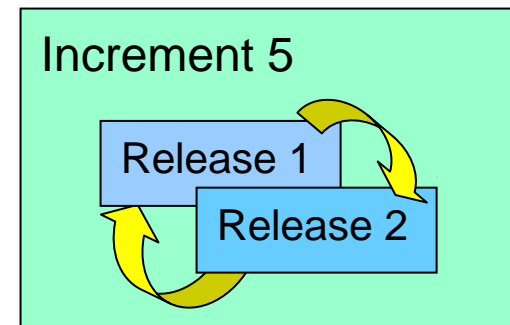
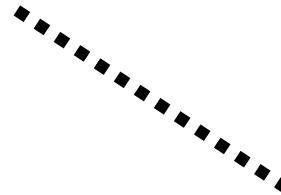
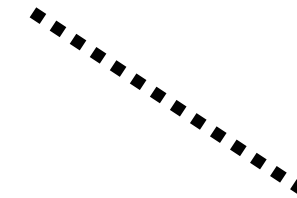
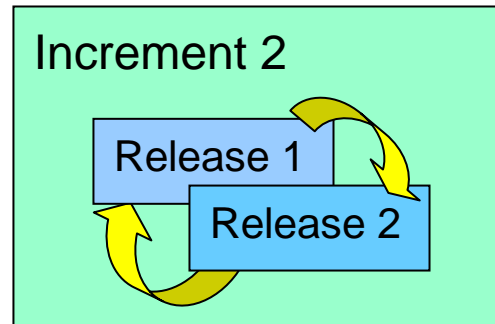
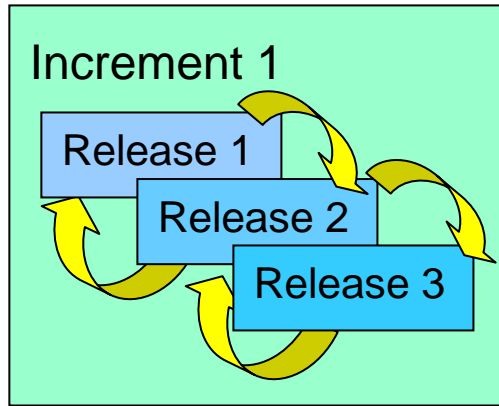
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ERA Acquisition Lifecycle



- A: Mission Need, Vision Statement
- B: Contract Award
- B1: Preliminary Design
- C1 – C5: Increment 1 to 5

ERA Development Cycles



Virtual Archives Laboratory

- Prototype Electronic Records Archives
 - Federated repositories
 - NARA
 - San Diego Supercomputer Center
 - University of Maryland Institute for Advanced Computer Systems
 - Technology Testbed for Grid Computing, Scalability, Security, etc.
 - Archival Experiments to explore challenges, evaluate options, etc.
 - Learning center



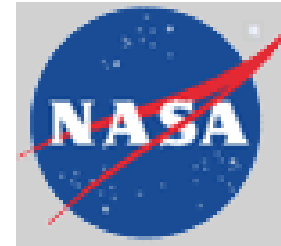
ERA Partnerships



National Science Foundation



Global Grid Forum



San Diego Supercomputer Center



National Computational Science Alliance



Army Research Laboratory



Defense Advanced Research Projects Agency

The Library of Congress

DIGITAL LIBRARY FEDERATION



National Partnership for Advanced Computational Infrastructure



[http://www.archives.gov/
electronic_records_archives/](http://www.archives.gov/electronic_records_archives/)

