President's Information Technology Advisory Committee

Digital Libraries Panel

David Nagel, Chair

September 20, 2000

Digital Libraries Panel Briefing Outline

- **Members**

- **Panel Charter**

- **February 24, 2000 meeting**

- **May 17, 2000 meeting**

- **September 19, 2000 meeting**

- **Findings and recommendations**

- **Next steps**

Digital Libraries Panel Members

- **Chair**
  - **Dave Nagel**

- **PITAC Members**
  - **Ching-chih Chen**
  - **Hector Garcia-Molina**
  - **Jim Gray**
  - **Bob Kahn**
  - **Raj Reddy**

Digital Libraries Panel Charter

- **Digital libraries are fundamental enabling technologies for all 10 "critical National Challenge Transformations" described in the PITAC's February 1999 report.**

- **The goal of this panel is to develop a technology research agenda and rationale for the digital libraries R&D that must be conducted in order to realize these transformations.**

February 24, 2000 Digital Libraries Panel Briefings

- **Intellectual Property Rights**   **Alan Inouye, CSTB**

- **Federal Statistics**   **Katherine Wallman, OMB**

- **Digital Library for Science and Engineering Education**   **James Lightbourne, NSF/EHR/DUE**

- **Geo-spatial Data**   **Barbara Ryan, USGS**

- **Biomedical Research and Health Care Applications**   **Milton Corn, NIH/NLM**

- **Metadata Issues**   **Clifford Lynch, CNI**

- **Digital Libraries R&D at NSF**   **Michael Lesk, NSF/CISE/IIS**

May 17, 2000 Digital Libraries Panel Briefings

- **DL R&D at NOAA**   **Bill Turnbull**

- **DL R&D at NASA**   **Milt Halem**

- **The Interagency DL Initiative**   **Steve Griffin, NSF**

- **DL for Humanities**   **George Farr, NEH**

- **Publishing Paper Archives on the Web**   **Yann LeCun, AT&T Labs**

- **Language and Information Processing**   **Alexa McCray, NIH/NLM**

September 19, 2000 Digital Libraries Panel Briefings

- **A Vision for a Digital Library**   **Walter Warnick, DOE**
      for the Physical Sciences

- **Building on the National Digital Library**   **Caroline Arms,**
      Program: Digital Libraries within   **Library of Congress**
      Libraries

- **Lessons Learned in Archiving the Internet**   **Brewster Kahle,**
              Alexa Internet

Digital Libraries Panel Findings

1. Though the appeal of the Internet and the World Wide Web is clear and their use is growing, their full potential has not yet been realized.

2. The Federal Government has exercised significant leadership in developing digital libraries technologies with modest investments such as the multiagency Digital Library Initiative, and in building and providing access to large digital libraries of scientific data.

3. Libraries, museums, and other collection holders face technical challenges as they migrate to and maintain their holdings in the digital medium.

4. Many intellectual property rights holders have not agreed on how to make their materials available on the Internet, if at all. Until they do, unauthorized challenges to rights holders will continue.

Digital Libraries Panel Recommendations

1. Support expanded digital libraries research on a wide variety of topics including:

   Archival storage and preservation

   Human use

   Intellectual property

   Interoperability

   Metadata & metadata use

   Privacy & security

   Scalability

2. Provide the necessary resources and policies to make all Federal material persistently available in digital form on the Internet.

3. Establish large scale testbeds.

Last Steps for Digital Libraries Panel

- **Finalize report**

- **Obtain PITAC approval**

- **PITAC sends report to the President and Congress**