Universal Access to Science Information

Moving Toward the Science Part of the PITAC Vision

“Universal Access to Human Knowledge”

Dr. Walter L. Warnick, Director
DOE Office of Scientific and Technical Information
Shared Premise

- Web is the tool of choice
- Each science agency offers information/services to fulfill its mission
- Science is not bounded by organization or geography
- Interagency collaboration needed
“No matter where the digital information resides physically, sophisticated search software can find it and present it to the user. In this vision, no classroom, group, or person is ever isolated from the world’s greatest knowledge resources.”

Digital Library Panel Report to the President, Feb. 2001
Support for Interagency Science Portal

PITAC Reports
FirstGov
Trivelpiece Report on Information Infrastructure for the Physical Sciences
NSF’s Science, Mathematics, Engineering and Technology Education (SMETE) Digital Library (NSDL)
Next Generation Internet Initiative
Internet2
Digital Libraries Initiative
Other historical studies
Trivelpiece Report

www.osti.gov/physicalsciences
President Bush’s expectations for e-government

“…enabling individuals to penetrate the Federal bureaucracy to access information…”

President’s FY 2002 Budget

“expanding the application of…e-government information.”

February 14, 2001, OMB memo to Federal agencies
Science information and resources for everyone from scientists to homeowners
Portal Model

GrayLIT Network

- DOE Information Bridge
- DOD DTIC Report Collection
- EPA National Environment Publ. Int. Site
- NASA Jet Prop. Lab Tech. Repts
- NASA Langley Tech. Repts
Makes gray literature of U.S. Federal Agencies easily accessible over the Internet.

Provides a portal to 120,000 full-text Federal Agency documents located at the DOE, DOD/DTIC, EPA, NASA Langley, and NASA JPL.

Taps into the search engines of Federal Agency gray literature collections, enabling the user to find information without knowing the sponsoring agency.

www.osti.gov/graylit
Provides “one-stop shopping” for 350,000 preprints in science and technology.

Includes links to over 700 scientific societies and associations for additional resources.

Browse over 4,000 diverse preprint sites or search selected sites by subject area.
Directed Query Concept

Single-Query Portal Interface: Nested Directed Query Engine Searches
A Worldwide Network of Scientific Resources and Tools Residing at Multiple Sites

All accessible from a single source
“Shared knowledge is the enabler of scientific progress”
An Interagency Portal
Providing Universal Access to Science Information