



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



PITAC Quote

“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.gov



Science
and Technology

Science
for Citizens

Standards
and Measures

Science Education

Scientific Data
and Statistics

[About the Infrastructure](#)

[Portal Descriptions](#)

[Participating Organizations](#)

**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**

GrayLIT Network, Full-Text Scientific Report Li...

Back Forward Stop Refresh Home Favorites History Search AutoFill Larger Smaller Print Mail Preferences

Address: Go



GrayLIT Network

A Science Portal of Technical Reports

Welcome

- Search the Literature
- About this Site
- What's New
- Disclaimer
- Contacts/Comments

DOE Home ◀
OSTI Home ◀

product of the DOE
Office of Scientific and Technical Information

Internet zone

00-41-49-04-01

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


PrePRINT Network - Energy, Science, and Technol...

Back Forward Stop Refresh Home Favorites History Search AutoFill Larger Smaller Print Mail Preferences

Address: Go

PrePRINT Network

[Security/Disclaimer Notices](#)




- About
- What's New
- Search Selected Sites
- Subject Pathways
- Browse
- Scientific Societies
- Comments
- Help

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.



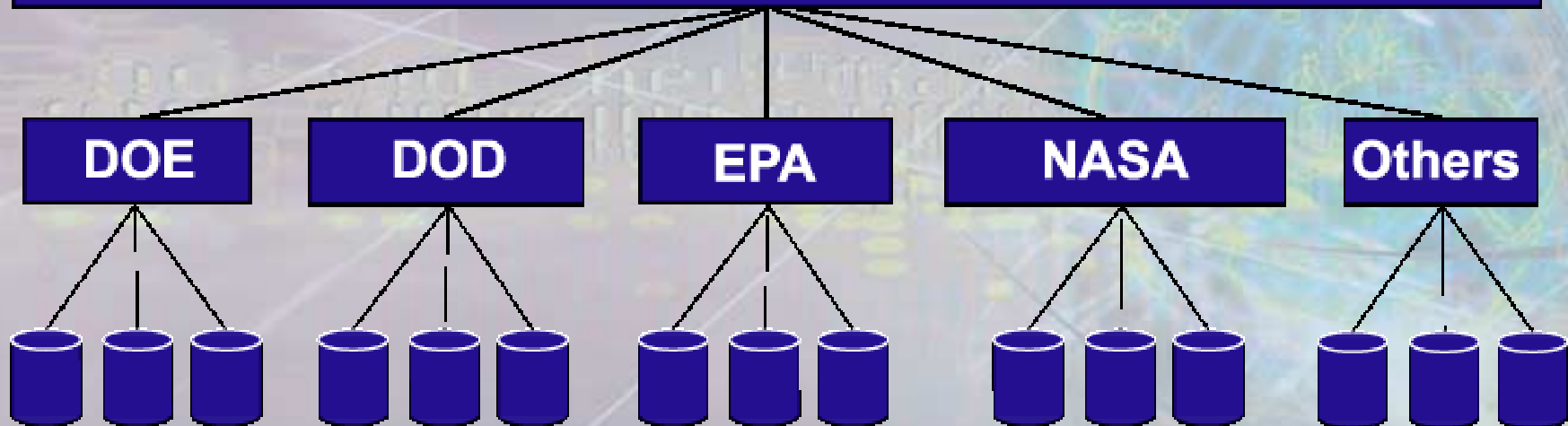
Internet zone

00-41-54-04-01



Directed Query Concept

**Single-Query Portal Interface:
Nested Directed Query Engine Searches**





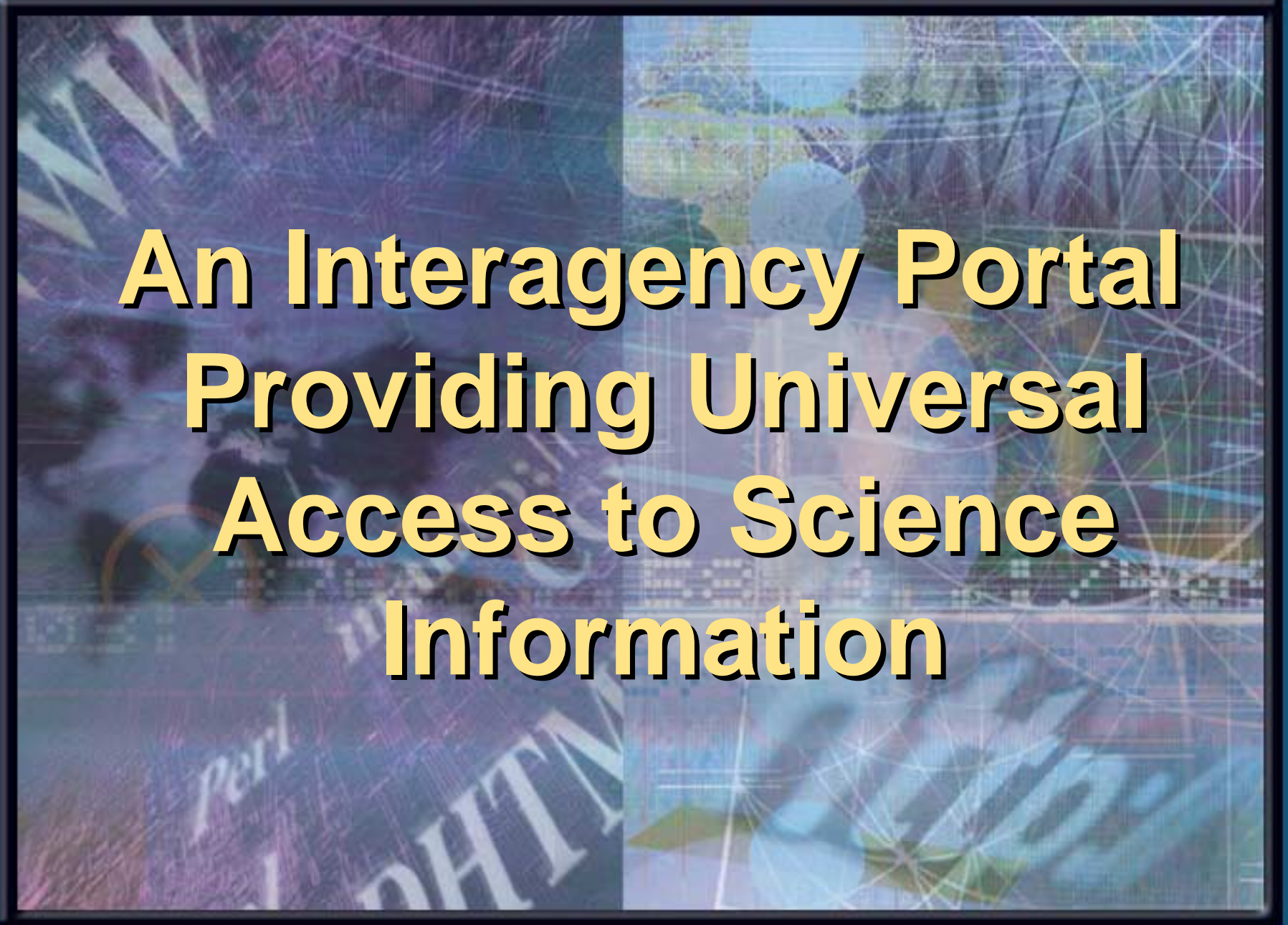
A Worldwide Network of Scientific Resources and Tools Residing at Multiple Sites

All accessible from a single source



“Shared knowledge is the enabler of scientific progress”





**An Interagency Portal
Providing Universal
Access to Science
Information**