Office of Scientific and Technical Information U.S. Department of Energy

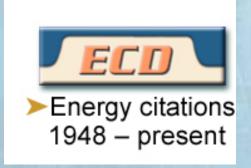
The Search for Hidden Treasure: R&D Results in the Deep Web

Karen J. Spence www.osti.gov

October 2004

The Partnership Continues









Federal R&D Project Summaries

OSTI's Corporate Position

- OSTI's unique niche in the Department and in the global information community is the result of:
 - OSTI's Departmental Program responsibility,
 - A vast information resource that does not exist anywhere else, and
 - OSTI's innovative information technology applications.
- Strategic use of this corporate position has resulted in providing the public state-of-theart resources for finding DOE information through GPO Access.

Electronic Services Partnership Then and Now

1998 2004

- 23,323 full-text documents
- 23,323 bibliographic records
- 50,000 downloads annually
- EDB data format
- Partnership Web products
 - Reports Bibliographic Database
 - Information Bridge

- 85,000 full-text documents
- 2.2 million bibliographic records
- 400,000 downloads annually
- Dublin-Core data format
- Partnership Web products
 - DOE Information Bridge
 - Energy Citations Database
- Additional Ancillary Services
 - GrayLIT Network
 - ~ 343,000 Federal documents
 - Federal R&D Project Summaries
 - ~ 500,000 Federal records

Advancing Public Access to Science through Federal Agency Collaboration

Customized Data Services for FDLP

OSTI is pleased to offer new technology to customize services to meet the individual needs of the FDLP.

- Data can be delivered in customized formats
- Data can be delivered in specific subject areas
- Data can be provided to meet specific library needs

Advancing Our Partnership

What is Science.gov?

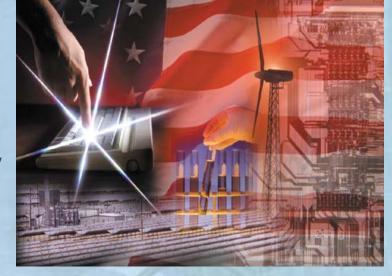


Science.gov Is Also...

- A cross-agency gateway to one of the government's most valuable resources – its R&D
- An Alliance of 17 information offices from 12 major science agencies
- A Web portal indexing over 1,700 resources
- A search tool, developed by OSTI, for 30 deep Web databases
- A creative way to maximize the U.S. return on its R&D investment

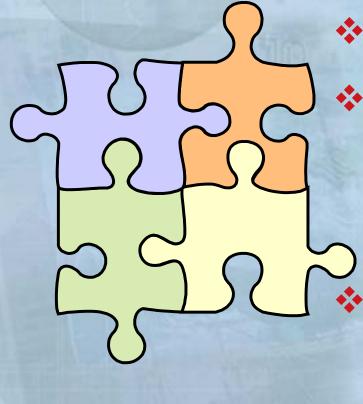
Behind the Scenes...

- DOE convened principals
- To capitalize on new technology



Vision: a new science information infrastructure

Shared Premise



- Web is the tool of choice
- Each science agency has information & services to fulfill its mission
- Science is not bounded by organization or geography
- Interagency collaboration is needed

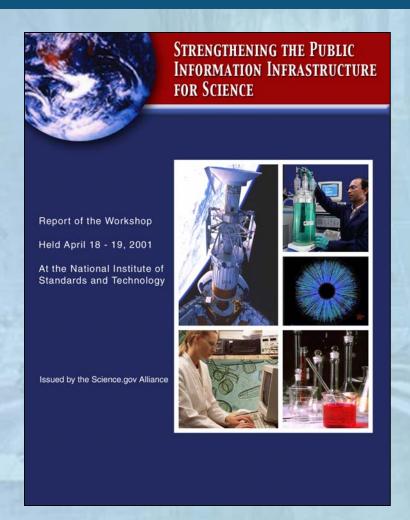
Science.gov Alliance is Born



- Interagency science portal endorsed
- Extraordinary voluntary collaboration - without appropriated funding or legislative mandate!
- Supports e-Gov initiative
- Organizes major and often hard-to-find information collections

Agency "Pot Luck"

- Agencies brought to the Internet table their unique information specialties
- Arranged resources on a simple Web site
- Powered by impressive collaborative intellectual work, computer systems, and software



First ".gov" Street in America



Nov. 7, 2003

Oak Ridge, Tennessee, renames roadway



Science.gov 1.0: Launched 12/02

Initial Features:

- Browse by Subject (1700 sites); broader/narrower categories listed
- Website search
- Deep Web search full content of 30 databases using Distributed Explorit
- Search results sorted by database with links to the websites
- Special section on Science Internships and Fellowships; special link with logo to Kids.gov; Featured Sites

Science.gov 2.0: Launched 5/11/04

Current Features:

- QuickRank a title-based mechanism for quickly ranking returns based on a two-step relevancy algorithm
- Results filtered/sorted by relevancy; can be separated by database
- Fielded or Advanced Search option; Author, Title, Full Record, Data Range
- Expansion of the number of databases searchable at one time: 10 databases expanded to 30
- Search page organized by broad subject
- * "MORE" button for additional returns displayed
- Regulations section provides metasearch of CFR and the Federal Register

Science.gov 3.0: Proposed Launch Summer 2005

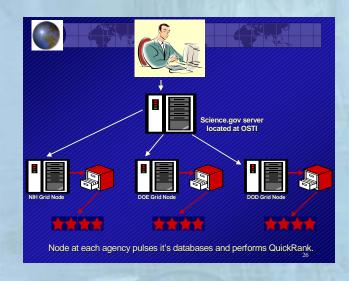
Proposed New Features:

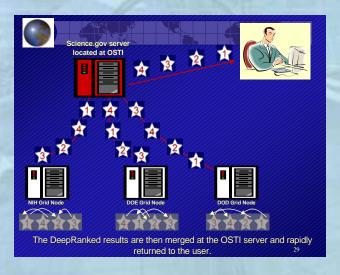
- MetaRank a metadata-based ranking of returns based on a complex relevancy algorithm; may sort returns by database, by QuickRank, by MetaRank
- Fielded search will be integrated into the Advanced Search
- Boolean search will be integrated into the Advanced Search
- Distributed Alerts, a site-wide alert system for notifying users of new material added in their areas of interest; slated as first new function for FY05

Science.gov 4.0: Proposed Launch 2006

Proposed New Features:

- Deep Rank (full-text relevancy ranking)
- Grid computing; parallel processing

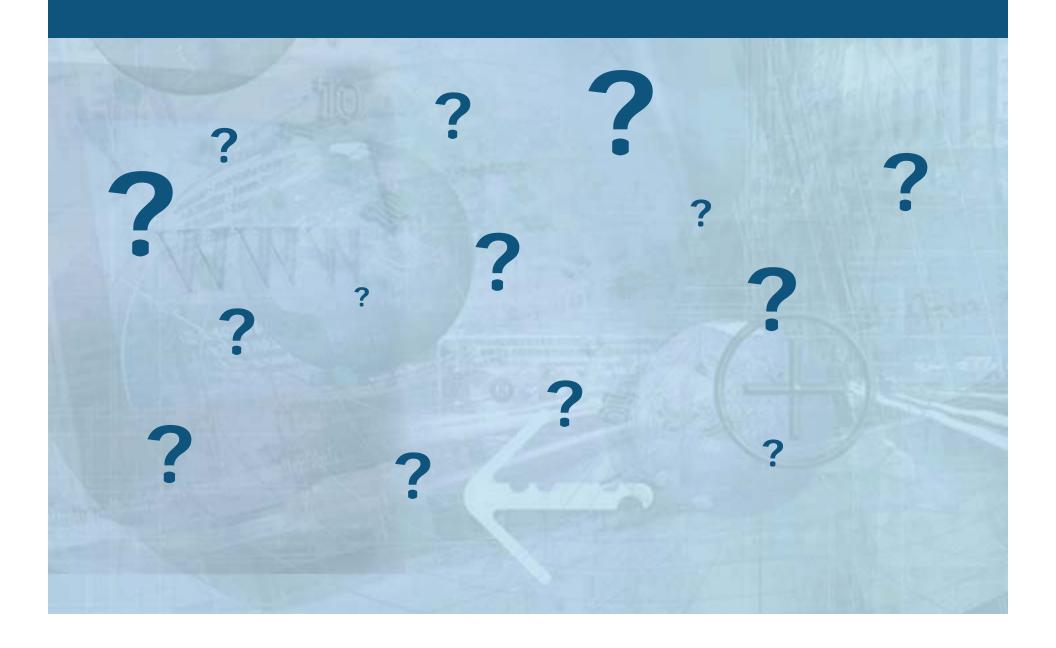




Yahoo/Google Collaboration

- Partnership with commercial search engines
- Objective of DOE R&D visibility
- Success of project demonstrated through usage statistics

What's New



- DOE and GPO Started the Rolling Window Data Service as a Pilot Project
- Customized Data Service
- * Ready to Broaden Availability

Functions/Features

- Manage Profiles via a Web-Based Interactive, User Profile Development Application
- Customized Email Alerts
- Single Window Requests
- Configurable Date Ranges
- XML, HTML, and Counts of Records Matching Specified Criteria

Uses

- Advertise "What's New" in Your Library
- Capture Metadata to Include in Your Library Catalogs
- Other

Log In Screen



Log In to Rolling Window Data Service				
User Name: test				
Password:				
LOGIN LOGIN				

The OSTI Rolling Window Data Service is a web-based application that allows interactive user profile creation. Users can receive individual email alerts based on a configurable date range (window) of DOE's bibliographic records and full-text links (when available) for documents/records made available to the public via the Internet based on data matching their specific interest and have those records delivered to them in the alert. For more information, contact tacketts@osti.gov. Download the User Guide (Adobe PDF).

Manage Profile Screen



	Edit Profile	ADD NEW PRO	ILE EDIT E	MAIL ALERT		
Profile Data						
<u>Profile Name</u> :	Medical Journals					
Full Text:						
<u>Title</u> :						
<u>Author/Creator</u> :						
<u>Language</u> :	English					
Country:	US					
Research Org:						
<u>Publication</u>	n Date - From:		To:			
	(mm/dd	/yyyy format)	(mm/dd/yyy	ry format)		
Document Types:						
☑ Book	✓ Journal Article	V	Software Manual	✓ Confe	erence	
▼ Technical Report	▼ Thesis/Dissertati	on 🔽	Patent Application	✓ Acco	mplishment Report	
	F	REMOVE PROFILE	SAVE PROFILI			

Email Alerts Screen



Edit Email Alert	RETURN TO PROFILE
Profile Name: Medical Journals	
Data Format: XML Format	
Email Address(es): (comma-delimited list)	
Email Subject: Medical Journals	
Salutation:	
Frequency: 7 (days)	☐ <u>Use Compression</u> ? (.zip format)
Next Run Date: (mm/dd/yyyy format) 09/25/2004	☐ Send email if no new data?
Attachment Filename: data.xml	▼ Enable Automatic Alert?
Results Based On: O Date Updated Date Entered	
REMOVE ALE	RT SAVE ALERT

Single Window Request Screen



Single Window Data Request					
Start Date: (mm/dd/yyyy format)	(mm/dd/yyyy format)				
Output Format: - Select Output Format -	Enable compression? (.zip format)				
Profile: - Select Profile - ▼					
	DOWNLOAD ALL RESULTS				





Status

- Now Open to all GPO FDLP Libraries
- URL: www.osti.gov/window
- Registration Required
- Initial Username <u>Guest</u>
 Password <u>Anonymous</u>
- Contact: Susan Tackett, DOE Office of Scientific & Technical Information Email: tacketts@osti.gov