



Public Access Gateway for Energy and Science

Dr. Walter Warnick

Director, Office of Scientific and Technical Information

Office of Science

U.S. Department of Energy



U.S. DEPARTMENT OF
ENERGY

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Science

Office of Scientific and Technical Information (OSTI)

Mission

Advance science and sustain technological creativity by making R&D findings available and useful to Department of Energy (DOE) researchers and the public.

Premise: Science advances only if knowledge is shared

OSTI Corollary: Accelerating the sharing of scientific knowledge accelerates the advancement of science



Energy Policy Act of 2005

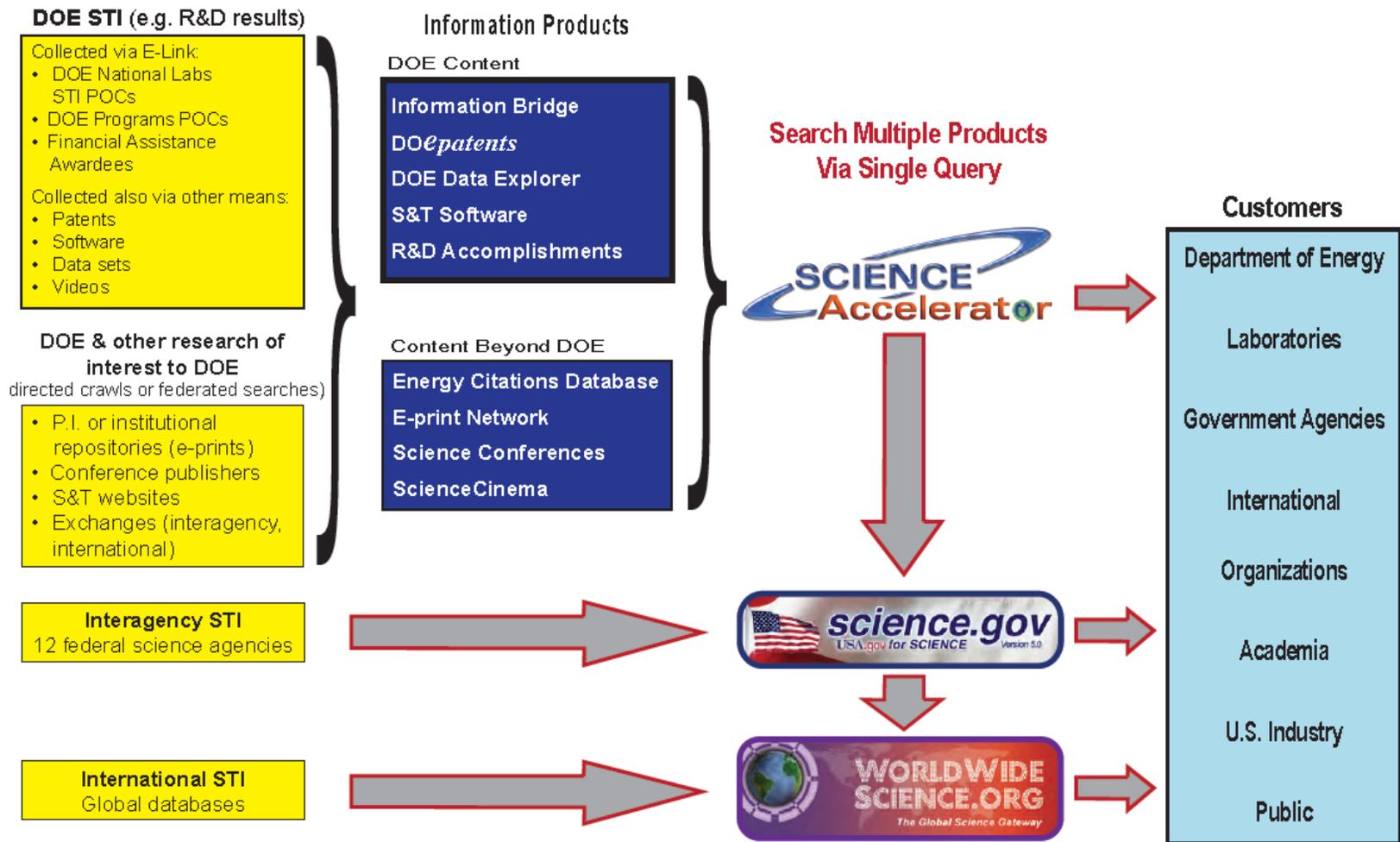
“The Secretary, ***through the Office of Scientific and Technical Information***, shall maintain within the Department publicly available collections of scientific and technical information resulting from research, development, demonstration, and commercial applications activities supported by the Department.”

OSTI Dissemination Products & Discovery Tools

We produce search tools that make DOE and related R&D results available.



OSTI R&D Information Flow



Federated Products



Integrates a range of R&D results (reports, patents, citations, eprints, etc.) from DOE information products.



Databases and websites offer over 200 million pages of science information from R&D agencies of the U.S. government.



Provides over 400 million pages of science information from databases and portals from the governments of 70+ countries.

Key remaining “gap” is in DOE’s ability to fully account for and provide access to journal articles resulting from DOE research. . .

JOURNAL ARTICLES



Momentum in favor of public access...

Congressional Action

- America COMPETES Reauthorization Act of 2010

Presidential Action

- OSTP's February 22, 2013, Memo to Agency Heads, "Increasing Access to the Results of Federally Funded Scientific Research"
 - ❖ Requires agency Public Access Plan for free access to final manuscripts or articles typically after some interval of time.

Agency Action

- Dr. Brinkman's response to OSTP memo:
 - ❖ "We . . . will work quickly to develop and implement policies and procedures so that peer-reviewed journal articles funded by the Office of Science are available to the public."

A Tangible Model for Public Access

- August 2012 – Dr. Brinkman tasks OSTI to develop a public access tool for the physical sciences.
- December 2012 – OSTI develops scalable prototype PAGES -- the Public Access Gateway for Energy and Science.

The PAGES prototype is a searchable gateway to distributed collections of DOE-funded publicly-accessible journal literature and accepted manuscripts.

Criteria for a DOE Public Access Model

- Enables **free access** by the public to peer-reviewed scientific and technical information sponsored by DOE.
- Enables **single search box** of all DOE-sponsored research literature without requiring that articles be in a centralized collection.
- Maintains a **comprehensive metadata collection** in order for the agency to fully account for its scholarly output.
- Preserves the freedom of researchers to promote and disseminate their research, i.e., **preserves researchers' choice** in selecting the journal to which they wish to submit manuscripts
- Recognizes the **value added by publishers** in providing high-quality scholarly communications and research tools and accommodates flexible publisher business models.
- Promotes the **Version of Record** for each article.
- Minimizes **cost** to DOE.
- Encourages **coordination and collaboration among agencies**.

PAGES meets these criteria.

PAGES Is a Hybrid, Distributed Approach

- Centralized metadata
- Decentralized full-text articles and manuscripts
- Populating PAGES . . .
 - ❖ Initial collection of existing open access articles (~2,000) and manuscripts
 - ❖ Anticipating 30,000 manuscripts/articles per year after embargo period
- PAGES is ready for near-term deployment thanks to . . .
 - ❖ DOE's existing ingest system and network (STIP) and
 - ❖ Experience with hybrid dissemination products (e.g., Information Bridge)

As a Distributed Public Access Gateway Model, PAGES...

- 1) Provides DOE with a mechanism, supported by FundRef, to fully account for its scholarly output, and
- 2) Gives the public an easy-to-use, practical way to find DOE's scholarly output.

PAGES addresses publishers' desire that each article have a Version of Record, hosted on the publisher's website, and facilitates finding this Version of Record.



PAGES serves the public and the agency by making the agency's publicly-accessible scholarly output easy to find.

What Is Publicly Accessible?

- Some articles are created to be publicly accessible.

An example is the APS Physical Review X, which provides free access to all readers upon publication. PAGES will link to such articles via the VOR DOI.



- Some articles become publicly accessible after an embargo period.

An example is Proceedings of the National Academy of Sciences (PNAS) which imposes an embargo period of 6 months. PAGES will link to such articles via the VOR DOI.



- Some articles are not publicly accessible on the publisher's site but have publicly-accessible accepted manuscripts elsewhere, which will be indexed by PAGES. An example is an accepted manuscript posted on a DOE lab website. PAGES will link to the accepted manuscript and will also display the VOR DOI.

PAGES Benefits from Ongoing Collaborations . . .

1) FundRef

- ❑ Will allow DOE to identify, account for, and point to all scholarly articles sponsored by DOE.
- ❑ Will facilitate efforts to ensure that PAGES is comprehensive and to add article DOIs, whether to free, publicly-accessible articles or to articles requiring subscription or other form of payment.

2) Metadata-sharing/linking agreements

- ❑ Will raise visibility/use of DOE-sponsored article metadata on OSTI platforms, driving traffic to publishers through DOI links;
- ❑ Will raise visibility/use of DOE technical reports through links on publisher platforms.

Both of these projects have fostered not only technical solutions and collaborations, but have additionally fostered a collegial environment for the socialization of new concepts.

DOE/SC's Proof-of-Concept Solution

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Potential Next Steps – Scaling Up



Inside DOE

- Continue socializing PAGES at HQ, Field, Labs
- Clarify submission requirements to include accepted manuscripts and metadata

Outside DOE

- Establish agreements with publishers who wish to participate
- Populate PAGES with DOE-funded article metadata/links
- Share PAGES model and technology with other agencies