



Enterprise SRS

Achieving the vision of the Savannah River Site

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Citizens Advisory Board

April 17, 2012



U.S. Department of Energy - Savannah River Site



CAB Recommendation #283

PRESENTER: Chris Upshaw, DOE IT

SME: Roy Funderburk, SRNS



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Purpose

- To follow up with an update to search performance and browser support issues cited in CAB Recommendation #283, *“Revising the Department of Energy Websites & Using Plain Language to Communicate with the Public More Effectively”*.



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External SRS Web Presence (www.srs.gov)

- **Content and Design**
- **Hosting (Web Servers)**
- **Content Workflows**



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Search Technology Basics

- **Crawling:** discover the web pages on the internet
- **Indexing:** build an index to facilitate query processing
- **Query Processing:** Extract the most relevant page based on user's query terms
- **Ranking:** Order the result based on relevancy
- **Various search engines do these things in different ways**



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Searching on www.srs.gov

- Search services are provided by USA.gov
- USA.gov controls all aspects (discovery, indexing, etc.)
- Our influence on the quality of search performance is to provide content that is easily and meaningfully indexed



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Known Issue: Indexing of PDF documents

- **Portable Document Format (PDF) file types and characteristics**
- **Importance of metadata**
- **Issues with the specific document cited by CAB**
- **Consequences**
 - **Lack of meaningful index data**
 - **No relevant search result**



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Proposed Actions for Search Improvement

- **Process Improvements**
 - Determine optimal PDF document attributes
 - Determine workflow stage at which document will be validated as optimized for search
 - Implement validation in the workflow
- **Dialog with USA.gov**
 - understand their discovery (crawling) processes, schedule, customization options, and limitations



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SRS External Websites

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Savannah River Site
 NEWS & EVENTS CAREERS PROCUREMENT SITE MAP SRS INFO: 803-725-6211 SEARCH SRS

SRNL Wins Prestigious R&D 100 Award
 Aiken, SC (June 22) — A research team led by the U.S. Department of Energy's Savannah River National Laboratory (SRNL) has been selected to win a prestigious 2011 R&D 100 award in an annual competition conducted by R&D Magazine. The award recognizes the SRNL-invented Porous Walled Hollow Glass Microspheres as one of the 100 most technologically significant products of the past year.

Each microsphere is about 50 microns in diameter, about half the width of a human hair. SRNL originally developed the microspheres as a solid-state storage method for hydrogen as part of the Lab's support of DOE's nuclear defense mission.

The SRNL research and development team included Dr. George Wicks, Dr. Leung Heung, Dr. Ray Schumacher, Dr. Steven Serkiz, and Dr. David Peeler. Other honorees included Dr. Rana Mottadi of Toyota; Dr. Bill Dymann of GHSU; and, Ted Day of Mo-Sci Corporation. [MORE>>](#)

SRNS OPERATOR: 803-725-6211

SRS website 2005 – 2011 ▲

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WHAT'S NEW
 2011 SRS
Environmental 2011 PRODUCT OF THE YEAR
Construction New-Style Disposal Line Complete
NMA Dohse and C...
SRS Seals Access to P Reactors, as part of fo...
SRS D INFO Savannah River Safety Contor 25

IN THE NEWS
 "Safety Begins with Me" – Working towards an Injury Free Workplace - Employees at the Savannah River Site embrace a high quality, high impact safety awareness campaign... [MORE ▶](#)

NEWS RELEASES
 03.21.12 Students Create Award-Winning Business From SRNL Technology
 03.13.12 Tokyo Electric Power Company Visits Department of Energy Labs
 03.12.12 SRS Marks Successful Operational Startup of New Biomass Cogeneration Facility
 03.05.12 SRR Employees Surpass 10 Million Hours Without Missing A Day of Work Due to An Injury

VIDEO CLIPS
 SRS Toys for Tots Campaign, over two decades of toy collection ment special celebration. [PLAY VIDEO](#)
 CLICK HERE FOR ADDITIONAL VIDEO RELEASES

EVENTS (Upcoming & Recent)
 • Cold War Patriots Resource Fair - Aiken, SC (03.15.12)
 • Packaging Operations and Maintenance (08.30-31.11)
 • Packaging Leak Testing Course (08.16-18.11)
 Savannah River Site Deer Control Activities - Information, requirements and applications.
 SRS 25 Year Banquets - October 17-20, 2011

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 SRS Status & Emergency Information
 Briefing for Visitors & Vendors
 Community Preparedness Info
 DOE • DOE-EM • DOE-SR • NNSA • ARRA • FSSR • SRNL • SREL • SRNS • SRR • MOX Services • WSI • Persons
 SRS Operator: 803-725-6211
 SRS Status & Emergency Information • Visitor/Vendor Briefing
 Contact SRS • Site Map • Disclaimer & Legal Notices

SRS website 2012 ▶

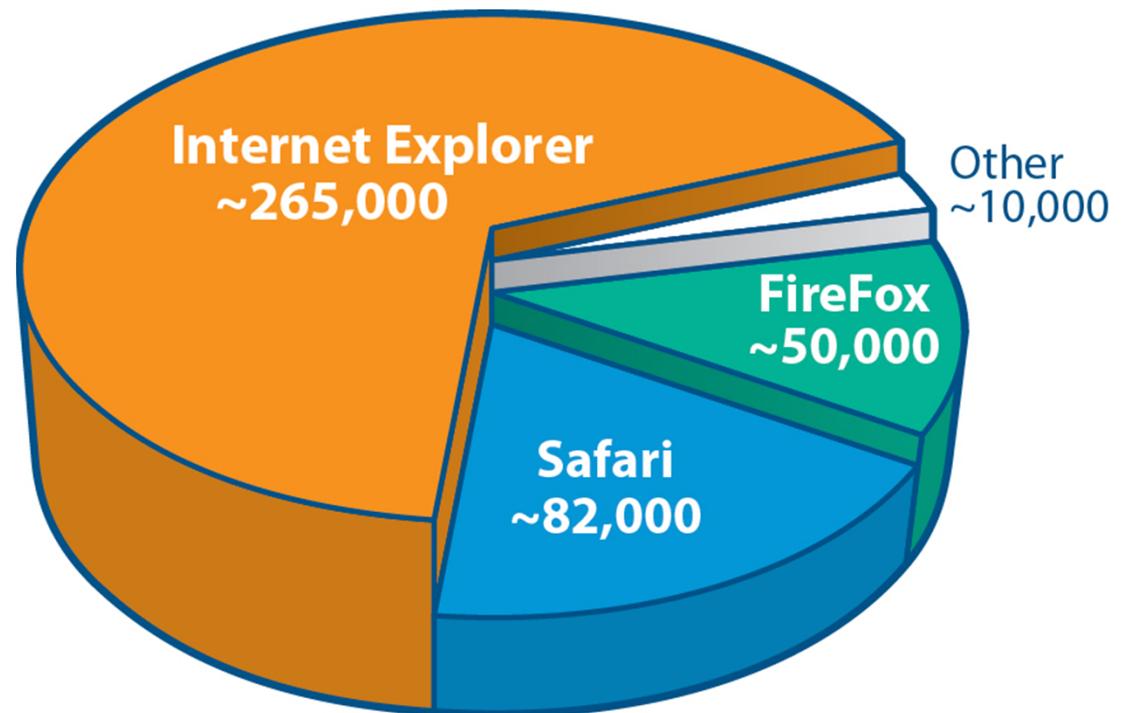


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SRS External Websites

- Hits by browser for March 2012 (approximate)
 - Internet Explorer (all versions) ~265,000
 - Safari ~82,000
 - FireFox ~50,000
 - Other browsers & spiders/robots ~10,000
- Total ~407,000



SRS External Websites

- Drop-down javascript menu issue
 - It is a software version problem on our end
 - Software upgrade will fix issue and is on order
 - Issue may be resolved by the April 17th CAB meeting



Summary

- **Where we are**
 - **Search**
 - Cited document (Community Involvement Plan) has been edited to include metadata that yields meaningful indexes when discovered by search engine
 - Contacted USA.gov to begin dialog on issues
 - USA.gov allows for configuration of “Best Bets” – a direct association of a link with a set of keywords; leverage this feature appropriately
 - Process and Workflows being analyzed
 - **Browser support**
 - Specific menu issue has been/will be addressed with software update
 - General cross-browser support commitment as indicated earlier will be maintained
 - **Status to be Provided on These Issues to CAB in June**



QUESTIONS ?



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