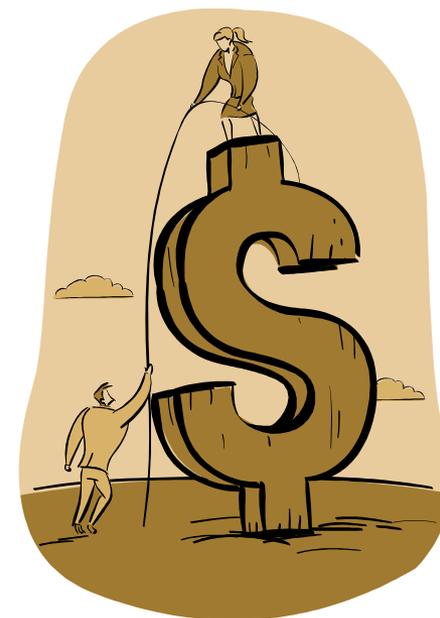




# Highlights of Accomplishments & Impacts FY 12

# A Year of Transition

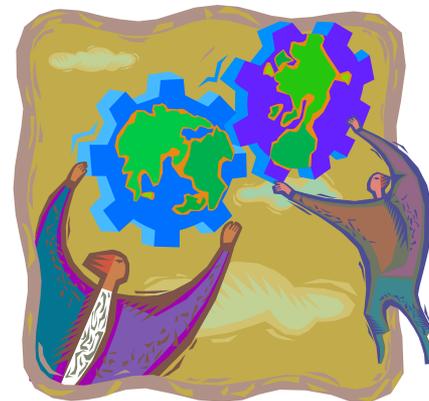
- New CENDI and Science.gov Chairs
- Many new faces; changes in membership
- Budget challenges/uncertainties for agencies
  - With impact on CENDI support
- Bottom line was moving through change to a new normal
- FY12 Planning Meeting: Move the Grand Challenge to the next step
  - For CENDI
  - For strategic relationships



# CENDI's Mission and Goals

*To help improve the productivity of federal science- and technology-based programs through effective scientific, technical, and related information support systems.*

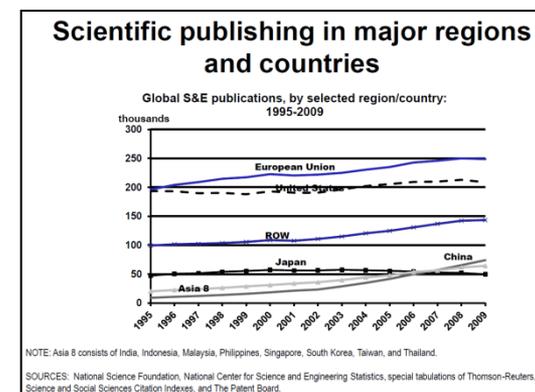
1. STI Coordination and Leadership: Provide coordination and leadership for information exchange on important STI policy issues.
2. Improvement of STI Systems: Promote the development of improved STI systems through the productive interrelationship of content and technology.
3. STI Understanding: Promote better understanding of STI and STI management.





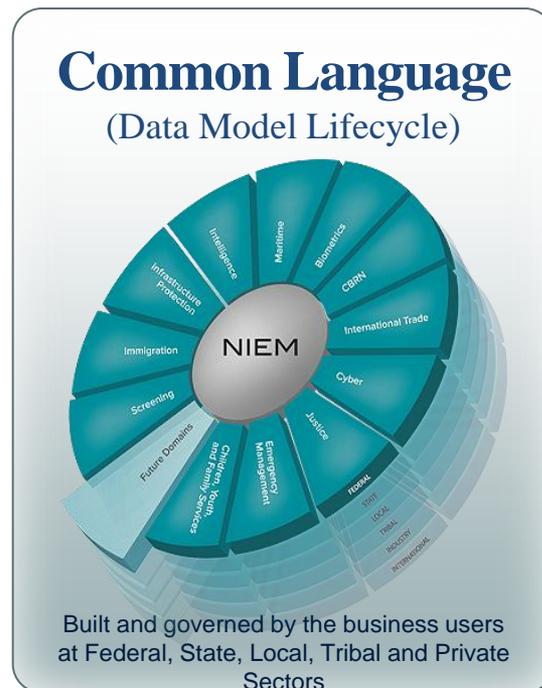
# Value and Metrics – Reviewing Approaches

- Value metrics on improved public access (Elliot E. Maxwell)
- Observations from the BRDI workshop on “The Value and Impact of Public Scientific Data – Framing the Challenge”
- Briefing on major metrics initiative for technology transfer as required by Presidential Memo (Federal Laboratory Consortium session and September '12 meeting) (Paul Zielinski)
- Science and Engineering Indicators at NSF (Derek Hill)
- Benchmarking DHS Clearinghouse Study (Gerald Steeman)
- “STAR METRICS: Understanding the Impacts of our Federal R&D Investment” (Julia Lane)
- “Interaction of STAR METRICS and the R&D Dashboard”(Kei Koizumi)



# Building Relationships with other Communities of Practice (COPs)

- A matrix of 5 COPs was developed showing overlap in membership
  - CENDI members able to identify their counterparts in other IWGs
- The Grand Challenge paper publicly released
  - Distributed to key COPs
- **Statistics:** Introduction to “Federal Interagency Council on Statistical Policy and SCOPE: Overview and Interconnections with CENDI”
- **CIO:** NIEM, a major initiative of the CIO community
- **Data:** CENDI presentation at the Open Data Government Conference entitled “CENDI: Breaking Down Silos in Federal Scientific and Technical Information”





## Connections to People With Influence on Federal STI

- **Data:** Jose-Marie Griffiths, co-chair of the National Science Board, giving an update on NSB priorities and recommendations on science management
- **Library:** Prue Adler presented information on the policy challenges and opportunities from the research library community
- **Big Data:** NITRD Support of the Big Data Initiative (Wendy Wigen)
- **NITRD:** George Strawn approached CENDI about developing a Research Community under Data.gov
- Connections with **5 OSTP IWGs:** Digital Data, Publications Technology Transfer, NITRD Big Data, NITRD Human Computer Interaction/Information Management
- **OSTP** Presentations at Annual Planning Meeting
  - **Federal Chief Technology Officer, Todd Park**
  - **OSTP lead for Data and Open Access, Mike Stebbins**





# Connected with Large Cross Section of the STI Community

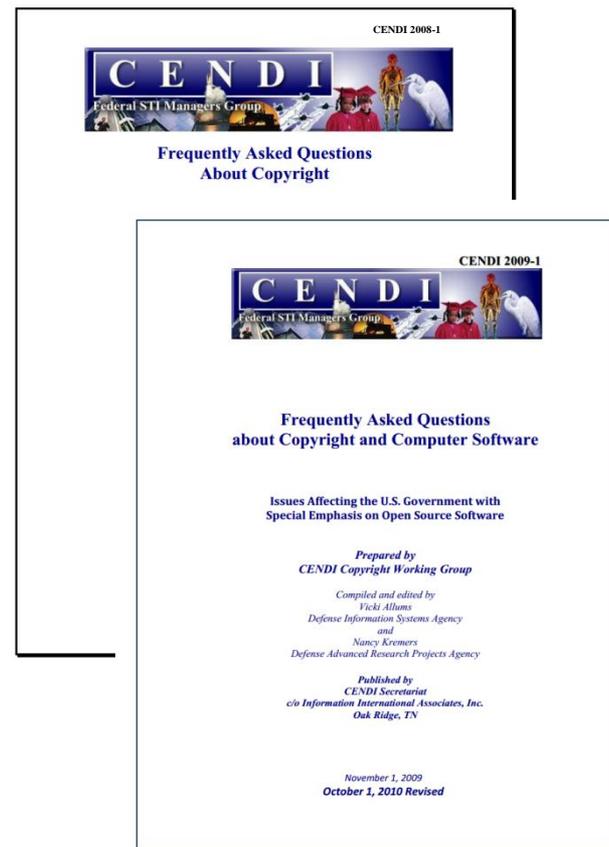
**Total ~ 160**

CATEGORY	# Participants
Legal and Policy	0
Legislative Branch	9
Judicial Branch	0
Executive Mission	82
Interagency	2
Non-gov't Organizations	19
Academia	26
Private	19
International	3



# ***CENDI Copyright WG Provides Interagency Focus on Intellectual Property Rights***

- Drafted “Permissions – Government Produced and Non-Government Produced Works: Best Practices for U.S. Government Agencies
- Began work on a Best Practices Guide on Trademark. Thirteen sections have been outlined and assignments made among the members for some of these sections.
- The group reviewed a document from the Copyright Office titled white paper on “Legal Issues in Mass Digitization” gaps related to digitization of government information





## Policy WG Keeps Members Informed

- *America Competes Act*, Section 103 Federal Response
- Requests for Information (RFIs) on Public Access
- The Berlin Declaration Meeting held November 9-10, 2011
- National Science Board Task Force on Data report
- President's memo on technology transfer
- Research Works Act (RWA)
- Federal Research Public Access Act (FRPAA)
- Protect Intellectual Property Act (PIPA)
- Stop Online Piracy Act (SOPA)
- Online Protection and Enforcement of Digital Trade Act (OPEN)
- Appropriations language to require NOAA to charge for data
- Administration's Digital Government Strategy



## Move Beyond Text – numeric data, images, audio, video, etc.

- “Challenges and Opportunities in the Stewardship, Policy, and Use of Digital Data and Information for Science And Society” (BRDI)
- Scientific Data Management: Progress Since the 2010 IWGDD/CENDI/EPA Conference (EPA)
- Data.gov architectures for interoperability, and collaboration opportunities (General Services Administration)
- Planning for CENDI/NFAIS December 11 Workshop: “Big Data: What Do You Need to Know Now?”
- Strong connections being built with NITRD Big Data
- Inventory and Management of Data Sets: Analytical Tools And Visualization (Congressional Research Service)
- Datasets and Journal Pilot Project as Building Blocks for Interlinking (DOE)
- Discussions of OSTI’s work with DataCite as a DOI registration agency

# Technology Exchanges

- Linked Open Data Service (LC/MARC)
- NLM,DOE Synergy in NLM Prize for NLMplus – An Award Winning Demonstration of Semantic Search (WebLib)
- Federal Science Repository Service (NTIS)
- Government Linked Data (W3C Linked Data WG)
- DigiTop Navigator: Current Awareness Service on Literature (NAL)
- USDA Implementation of VIVO (NAL)



# Special Focus on Repositories

- “Repositories in Science & Technology: Preserving Access to the Record of Science”
  - CENDI/NFAIS/FLICC workshop was successfully held on November 30. It was hosted by FLICC.
  - Attended by 151 people from 75 organizations



- Greer (NIST Computer Laboratory) proposal to the workshop on Repositories
  - NIST/NSF Concept Paper follow-up





# Connected with Large Cross Section of the STI Community

CATEGORY	# Programs & Offices				
	FY 08	FY 09	FY 10	FY11	FY12
Legal and Policy	3	6	6	31	0
Legislative Branch	3	8	12	29	9
Judicial Branch	2	3	7	13	0
Executive Mission	40	56	98	284	82
Interagency	2	2	5	8	2
Non-gov't Organizations	19	23	24	41	19
Academia	4	19	25	90	26
Private	35	21	44	73	19
International	9	11	9	17	3
<b>TOTALS</b>	<b>117</b>	<b>149</b>	<b>230</b>	<b>586</b>	<b>160</b>



# Science.gov

- New Leadership: Tina Gheen (LOC) and Annie Simpson (USGS)
  - An Executive Committee is leading planning initiative
- Focus on metrics for members – referrals from crawlers
- Metadata enhancements:
  - Scope notes for 40 categories were added
  - Clarify U.S. agencies naming conventions for international search
  - Core metadata documented: various agency metadata schemes mapped to core
  - Standardizing the contract/grant number formats in cooperation with publishers
- Developed update/modernization of look and feel of Science.gov
- Science.gov made available for mobile devices
- Negotiations to add Data.gov as a data source within Science.gov
- 10th Anniversary 12-12-12 kick-off anniversary planned

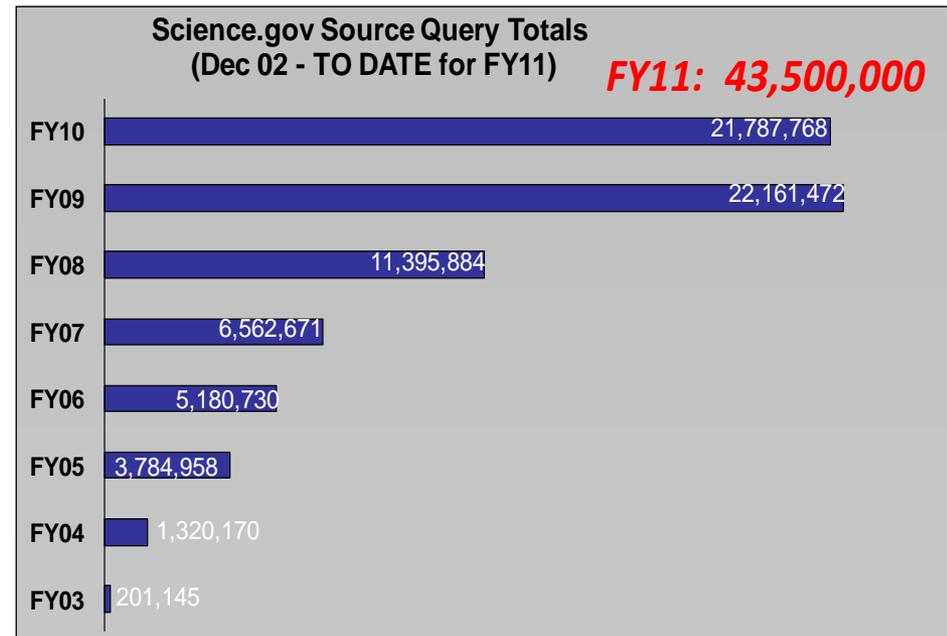
GCN named  
Science.gov one of the  
“10 best government  
mobile apps”



# Science.gov's Continued Success

## Usage Continues to Increase

- New Leadership:
  - Tina Gheen (LOC)
  - Annie Simpson (USGS)
- Source queries exceed 43.5 FY to date (2x total for FY10)
- More than 1.3 million users FY to date (more than all of FY10)
- 7.3 million page views FY to date (40% more than all of FY10)
- Social media increases visibility
  - 3000+ Alerts
  - 360 Twitter followers

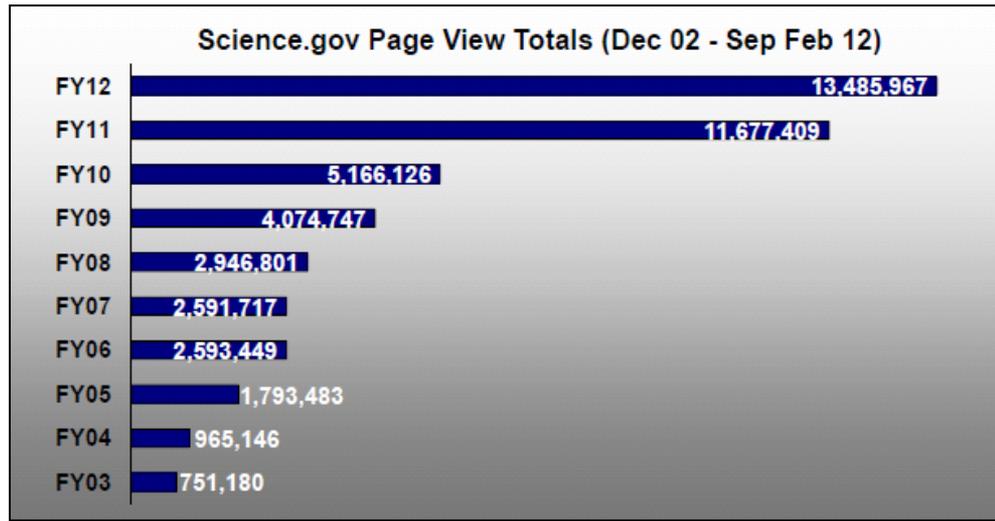




# Science.gov: Successes

- Resources from 15 federal agencies
  - Over 200 million pages of authoritative government science information
- Science.gov searches over 50 databases and over 2100 selected websites Resource types expanding: docs, websites, images, data
- Annual source queries exceed 25.2M
- Named one of top-10 gov't and mobile websites by GCN
- Helped launch & largest contributor to WorldWideScience.org

**Celebrating 10<sup>th</sup> Anniversary in 2012!**

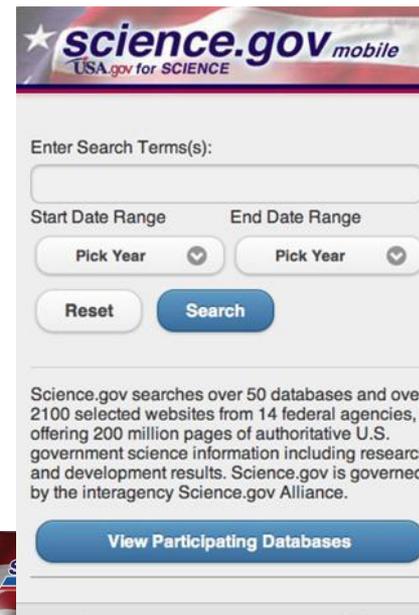


# Science.gov

- Relevancy ranked results
- Science agency news feeds
- Social media sharing
- Topic clustering of results
- EurekaAlert! Science News
- Wikipedia links
- Download capabilities
- Advanced search
- Email search results
- Spelling suggestions
- Results sorting
- User-friendly navigation, preference options
- Alerts service

Innovative technology drills down to selected databases and websites in parallel, then presents ranked search results.

A Top Ten in Federal Apps by Information Week and GCN!



**Science.gov is among 10 government websites “meeting and exceeding” the Obama Administration’s transparency goals, according to a special report by *Government Computer News (GCN)*, released July 27, 2009.**

# CENDI Meritorious Awards *2012*



**Annie Simpson, USGS Alternate and Science.gov co-chair, was selected for going above and beyond the expectations for Science.gov, bringing enthusiasm, creativity, and unbelievable persistence and determination to the revitalization project.**



**Lisa Weber, Director of the Information Technology Policy and Administration Division, NARA, and former Chair of CENDI, received the award in recognition of her tireless and inspiring leadership of CENDI as it grew in strength during two years of dramatic change.**



# Acronyms

**ARL – Association of Research Libraries**  
**BRDI – Board on Research Data and Information**  
**CNI – Coalition for Networked Information**  
**CODATA – Committee on Data**  
**COPs – Communities of Practice**  
**DHS – Department of Homeland Security**  
**EPA – Environmental Protection Agency**  
**FADGI – Federal Agencies Digitization Guidelines Initiative**  
**FAQ – Frequently Asked Questions**  
**FLC – Federal Laboratory Consortium**  
**FRPAA -- Federal Research Public Access Act**  
**FLICC -- Federal Library and Information Center Committee**  
**GCN– Government Computer News**  
**GSA – General Services Administration**  
**ICSTI – International Council for Scientific and Technical Information**  
**IEEE – Institute of Electrical and Electronics Engineers**  
**IPR – Intellectual Property Rights**  
**IWGDD -- Interagency Working Group on Digital Data**  
**NAS -- National Academies of Science**

**NFAIS – National Federation of Advanced Information Services**  
**NIEM -- National Information Exchange Model**  
**NIST – National Institute of Standards and Technology**  
**NITRD -- Networking and Information Technology Research and Development**  
**NKOS -- Networked Knowledge Organization Systems**  
**NLM – National Library of Medicine**  
**NSB – National Science Board**  
**NSTC – National Science and Technology Council**  
**OMB – Office of Management and Budget**  
**OSTI – Office of Scientific and Technical Information**  
**OSTP – Office of Science and Technology Policy**  
**RSS – Rich Site Summary**  
**SCOPE -- Statistical Community of Practice and Engagement**  
**SDM – Scientific Data Management**  
**SKOS – Simple Knowledge Organization Systems**  
**STEM -- Science, Technology, Engineering, and Mathematics [Education]**  
**STI – Scientific and Technical Information**  
**TAG – Technical Advisory Group**