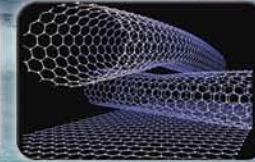
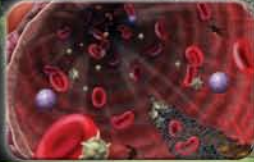




*Celebrating*  
**60** *years*  
*of Discovery*

# Open Government to Business & Operations Advisory Committee



***José Muñoz, PhD***

***Nov 2010***



# The Open Government Directive (OGD)

- Issued on 8 Dec 09 by Peter Orszag, OMB Director
  - issued to Heads of Executive Departments and Agencies
- Directed by President's Transparency and Open Government memo of 21 Jan 09
  - supported by Federal CTO
- Implement: Transparency, Participation and Collaboration
- Establishes deadlines for actions that must be completed by Departments and Agencies
- Openness is the default position for FOIA issues



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# Executive Departments and Agencies Will be **REQUIRED** to:

- Publish agency information online
  - high-value data
  - online open format (platform independent, machine readable)
- Improve the quality of government information
  - data must be quality assured and verified
- Create and institutionalize a culture of open government
  - agency Open Government Plan
- Create an enabling policy framework for open government





# High-value Data... is data that

- Can be used to increase agency accountability and responsiveness
- Improves public knowledge of the agency and its operations
- Furthers the core mission of the agency
- Can create economic opportunity
- Is responsive to need and demand as identified through public consultation



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# Websites of Interest

- [www.nsf.gov/open/](http://www.nsf.gov/open/)
  - NSF Freedom of Information Act Report Oct08-Sep09
  - NSF GRF award recipients: 2000-2009
  - NSF GRF Honorable Mention Recipients: 2000-2009
  - NSF Research Grant Funding Rates
  - Nat'l Survey of: College Grads, Recent College Grads, Dr. Recipients
  - Research Spending and Results
  - Key Science and Engineering Indicators: Digest 2010
  - NSF Grants Mgmt and Info Research Spending and Results
  - Comprehensive Info on Federal Spending by Agency and Spending Type
  - NSF Spending Under the ARRA of 2009
  - Performance of NSF Major IT Investments (Exhibit 300s): IT Dashboard



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# NSF High Value Data - Stats

Dataset/Tool Name	Publication Date	# Downloads	User Ratings (if applicable)
NSF FY07 FOIA report	published 10/3/2010	9 downloads	no ratings
NSF FY08 FOIA report	published 10/3/2010	18 downloads	no ratings
NSF FY09 FOIA report	published 1/25/2010	593 downloads	rated 1/5 stars by 2 users
NSF GRFP Recipients, 2000	published 5/20/2010	122 downloads	no ratings
NSF GRFP Recipients, 2001	published 5/20/2010	108 downloads	no ratings
NSF GRFP Recipients, 2002	published 5/20/2010	93 downloads	no ratings
NSF GRFP Recipients, 2003	published 5/20/2010	103 downloads	no ratings
NSF GRFP Recipients, 2004	published 5/20/2010	117 downloads	no ratings
NSF GRFP Recipients, 2005	published 5/20/2010	100 downloads	no ratings
NSF GRFP Recipients, 2006	published 5/20/2010	103 downloads	no ratings
NSF GRFP Recipients, 2007	published 5/20/2010	109 downloads	no ratings
NSF GRFP Recipients, 2008	published 5/20/2010	106 downloads	no ratings
NSF GRFP Recipients, 2009	published 5/20/2010	139 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2000	published 5/20/2010	95 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2001	published 5/20/2010	91 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2002	published 5/20/2010	102 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2003	published 5/20/2010	96 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2004	published 5/20/2010	111 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2005	published 5/20/2010	99 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2006	published 5/20/2010	96 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2007	published 5/20/2010	98 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2008	published 5/20/2010	105 downloads	no ratings
NSF GRFP Honorable Mention Recipients, 2009	published 5/20/2010	102 downloads	no ratings
NSF Research Grant Funding Rates for 2009	published 1/25/2010	1,040 downloads	rated 2/5 by 5 users
Science and Technology Indicators 2010 Digest	published 1/25/2010	287 downloads	no ratings
Research Spending and Results, 1994-2009	published 6/12/2009	615 downloads	rated 4/5 by 3 users
SESTAT	published 5/21/2009	713 downloads	rated 4/5 by 9 users





# NSF Dataset Timeline

Date	Description
✓ Sep10	2008,2007 NSF FOIA Report
✓ Oct10	2006,2005 NSF FOIA Report
✓ Oct10	2009 Budget Data
✓ Oct10	Research spending and results-project outcomes reports
✓ Oct10	Obligations by State, Account (10 yr. history)
✓ Oct10	Obligations by State, Account (10 yr. history)
✓ Oct10	Funding Rate by Directorate (10 yr. history)
Nov10	NSF Complete Budget History by Account
Nov10	Average Dwell Time for NSF by Directorate (10 yr history)
Nov10	2004,2003 NSF FOIA Report
Nov10	POR, award information, PI outcomes
Dec10	Funding Rates by PI Demographics (10 yr. history)
Dec10	Early and Later CAREER PIs: Counts and Funding Rates
Dec10	Average Review Scores by Directorate
Dec10	2002,2001 NSF FOIA Report
Dec10	Integrated NSF calendar tool
Dec10	WebCASPAR data tool: easy access to a large body of statistical data resources for science and engineering (S&E) at U.S. academic institutions
Jan11	2000,1999 NSF FOIA Report
Jan11	Revised award search mechanism
Jan11	NSF Multi-agency funded dataset made available
Feb11	1998 NSF FOIA Report
FY10/FY11	Work with various NSF internal units to discuss transparency implementation such as possibility updating performance goals and/or including Open Gov't as part of COV review process



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# Websites of Interest

- [www.whitehouse.gov/open](http://www.whitehouse.gov/open)
  - Federal mandates/memos
- [www.data.gov/ogd](http://www.data.gov/ogd)
  - Contains datasets from various agencies
- [www.nsf.gov/open](http://www.nsf.gov/open)
  - NSF Open Government website response
- [www.USASpending.gov](http://www.USASpending.gov)
  - Details of federal IT investments
- [www.recovery.gov/Pages/home.aspx](http://www.recovery.gov/Pages/home.aspx)
  - Data related to Recovery Act spending
- [www.research.gov/rgov/anonymous.portal](http://www.research.gov/rgov/anonymous.portal)
  - partnership of federal research-oriented grant making agencies, led by NSF
- [news.science360.gov/files/](http://news.science360.gov/files/)
  - multimedia Web portal devoted to science, technology and engineering, launched by NSF



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# Major Milestones

- NSF Open Data Directive Strategic Plan
  - 07 Apr 10: **COMPLETED**
  - 30 Sep 10: **REVISED**
- NSF Data Quality Plan
  - 14 May 10: **COMPLETED**
- NSF Open Gov't Implementation Plan
  - 30 Sep 10: **COMPLETED**
- NSF Flagship Initiative: ???



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# Prizes / Challenges

- In March 8, 2010 memorandum, OMB provided legal guidance on the use of Challenges and Prizes to promote open government and innovation.
  - Challenges can serve as an alternative to traditional grant making and procurement.
- In a challenge: "seeker" challenges a "solver" to identify a solution to a particular problem or reward contestants for accomplishing a particular goal.
  - Incentive prizes (monetary or non-monetary) often accompany innovation challenges and contests.
  - Challenges can range from fairly simple (idea suggestions, creation of logos, videos, games, mobile apps) to proofs of concept solving the grand challenges of our time.
- OMB tasked GSA with providing an online challenge platform.
  - Zero cost to agencies
  - [www.challenge.gov](http://www.challenge.gov)
- President is encouraging EVERY agency to participate



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# NSF Flagship Initiative for Open Government

- Specifically furthers one or more of NSF's primary strategic goals
  - NSF's strategic plan being updated... Spring 2011
- Performance measurement: identify a set of specific performance metrics for the flagship initiative that are:
  - executional (process metrics), and
  - strategic (outcome metrics that reflect NSF's strategic goals)
- Ideally would benefit other agencies as well
- OSTP and SBE are in discussion on a research activity: efficacy of the open government initiative



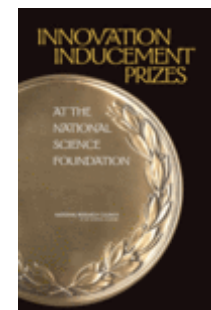
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# National Research Council: Innovation Inducement Prizes

- Commissioned by NSF in 2007
- Begin with an experimental program
  - “..an ambitious program of innovation inducement prize contests will be a sound investment in strengthening the infrastructure for U.S. innovation”
- “NSF should assume primary responsibility for developing, communicating, implementing, and evaluating this program through a dedicated program staff”
- Work with NSF stakeholders
- Can also be used for outreach purposes

[http://books.nap.edu/openbook.php?record\\_id=11816&page=R1](http://books.nap.edu/openbook.php?record_id=11816&page=R1)



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## Lifted by the Cloud: Visions of Cloud-Enhanced Accessibility

Created by Federal Communications Commission

What is your vision of how cloud computing can create new opportunities for people with disabilities? Create a multimedia presentation that shows what could be possible using the computing and communication power now available via the Internet.

[View details →](#)



**Submissions**  
End in 6 months



**\$2,000**  
in prizes



**12**  
supporters



## Next Generation Design Competition

Created by U.S. General Services Administration

Emerging designers and architects compete to turn a midcentury federal office building into a model of environmental efficiency!

[View details →](#)



**Submissions**  
End in 3 months



**\$10,000**  
in prizes



**22**  
supporters



## Enabling Community Use of Data for Cancer Prevention and Control

Created by U.S. Department of Health and Human Services

Using data available through the National Cancer Institute's (NCI) Division of Cancer Control and Population Sciences (DCCPS) and their partners, develop and test a...



**Submissions**  
End in 17 days



**26**  
supporters

Narrow your results

### Categories

Any category

**Science & Technology (20)**

Defense (4)

Environment (2)

Health (2)

Personal and Public Safety (2)

Education (1)

### Organizations

Any organization

Federal Communications Commission (1)

National Aeronautics and Space Administration (9)

U.S. Agency for International Development (1)

U.S. Department of Defense (4)

U.S. Department of Energy (2)

U.S. Department of Health and Human Services (1)

U.S. Department of State (1)

U.S. General Services Administration (1)



# Next Steps

- OGD requires active engagement of the agency's senior management council (SMART)
  - ADs and ODs engagement
- Get ALL staff to think about “high-value data” that might be of interest to the public
  - e.g. SBIR data from ENG
  - SES “stretch goals”
- Update NSF's Implementation Plan
  - Identify new datasets (eg. FOIA) ✓
  - Include *Science, Engineering & Education Innovation (SEE Innovation)* ✓
  - Include STAR Metrics ✓





## Next Steps (cont'd)

- Identify an NSF-wide
  - Flagship initiative
    - SBE working with OSTP on possible activity
  - Challenge/prize for general public (OLPA)
- Each Directorate/Office should identify at least one challenge for challenge.gov
  - Simple, wide public engagement
  - Endorse an existing challenge?
    - E.g. <https://gw.innocentive.com/ar/challenge/browse>
  - Another good stretch goal for SESers
- **Challenges/prizes require resources and commitment**







# What We'd Like the AC to Do

- NSF: What datasets would be of interest to-
  - General public to best highlight NSF science contributions and benefits
  - Domain specific communities to keep them informed and engaged
- Domain/Area specific Challenge/prize representative of your interests
  - Capture the imagination/interests of the general public. Eg. Video, essay, “name the xxxxxx...”
  - An interesting challenge to your communities, but also to those who might be outside your specific communities (outside-the-box). “better mousetrap”

Does the general public know what NSF does for them?



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## Things to Consider...

- Make all future workshop reports, studies, et. al., available in a machine readable format?
  - new policy? Costs?
- Create a new element in COV process?
  - Assessment of Dir./Div. open government activities
- By far, the most requested data requested is open access to scientific results
  - Major issue being addressed by NSB Task Force





# B&O AC Questions

- Concerned about resources and overhead
  - Concur, this is an unfunded mandate
- What is NSF's policy going to be about how much data to post?
  - Per the plan we hope to post as much as possible within confidentiality guidelines
- How many "hits"? Response to queries?
  - this has not been a problem, so far
- Someone with expertise in public relations should be consulted
  - OLPA is an **active** member of the NSF OGD WG





# QUESTIONS?

QUESTIONS?



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