

# NSF Regional Grants Conference

## Introduction & NSF Overview



Hosted by: Portland State University  
Portland, Oregon  
October 22-23, 2007

# Ask Early, Ask Often!

Name	Title	Contact
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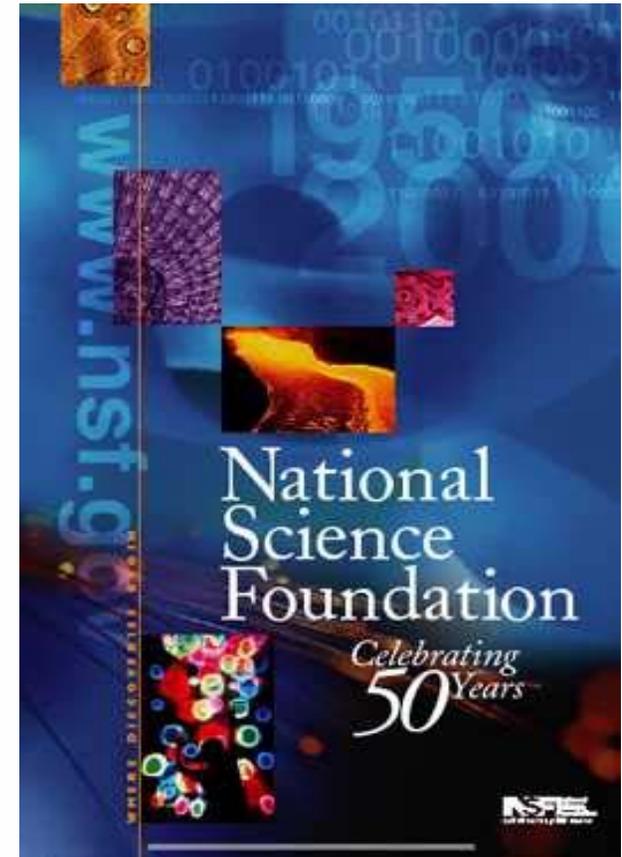
## **Main Topics**

- **Origins of NSF**
- **The National Science Foundation**
- **NSF FY 2007 Budget: Context & Outcome**
- **The NSF FY 2008 Budget Request**
  - NSF Initiatives
- **Current Proposal, Award and Funding Trends**



# Origins of NSF

- “The Government should accept new responsibilities for promoting the flow of scientific knowledge and the development of scientific talent in our youth.”
  - Science, The Endless Frontier, 1945
- 1947: Congress Approves, Truman Vetoes: Agencies created in the meantime
- 1950: Compromise Bill Approved & Signed by Truman



# NSF Act of 1950

- “To promote the progress of science...”
- NSB (24) and 1 Director, appointed by the President
- Encourage & develop a national policy for the promotion of basic research and education in the math, physical, medical, biological, engineering and other sciences
- Initiate & support basic scientific research in the sciences
- Evaluate the science research programs undertaken by agencies of the Federal government
- Provide information for S&E policy formation



## **NSF Vision**

**Advancing discovery,  
innovation and education  
beyond the frontiers of current  
knowledge, and empowering  
future generations in science  
and engineering.**



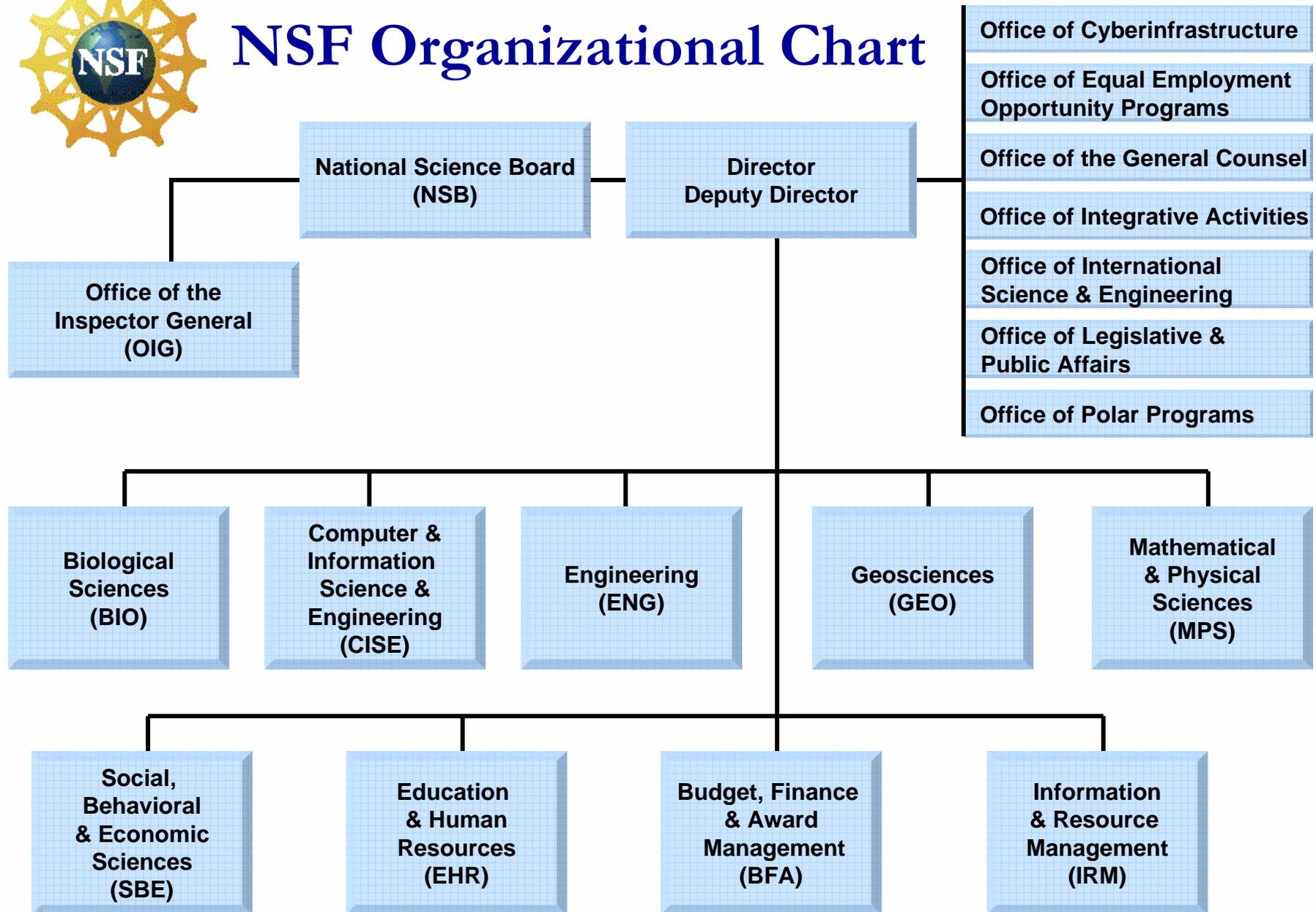
## NSF in a Nutshell

- Independent Agency
- Supports basic research & education
- Uses grant mechanism
- Low overhead; highly automated
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- National Science Board





# NSF Organizational Chart



# NSF: Recent Personnel Changes

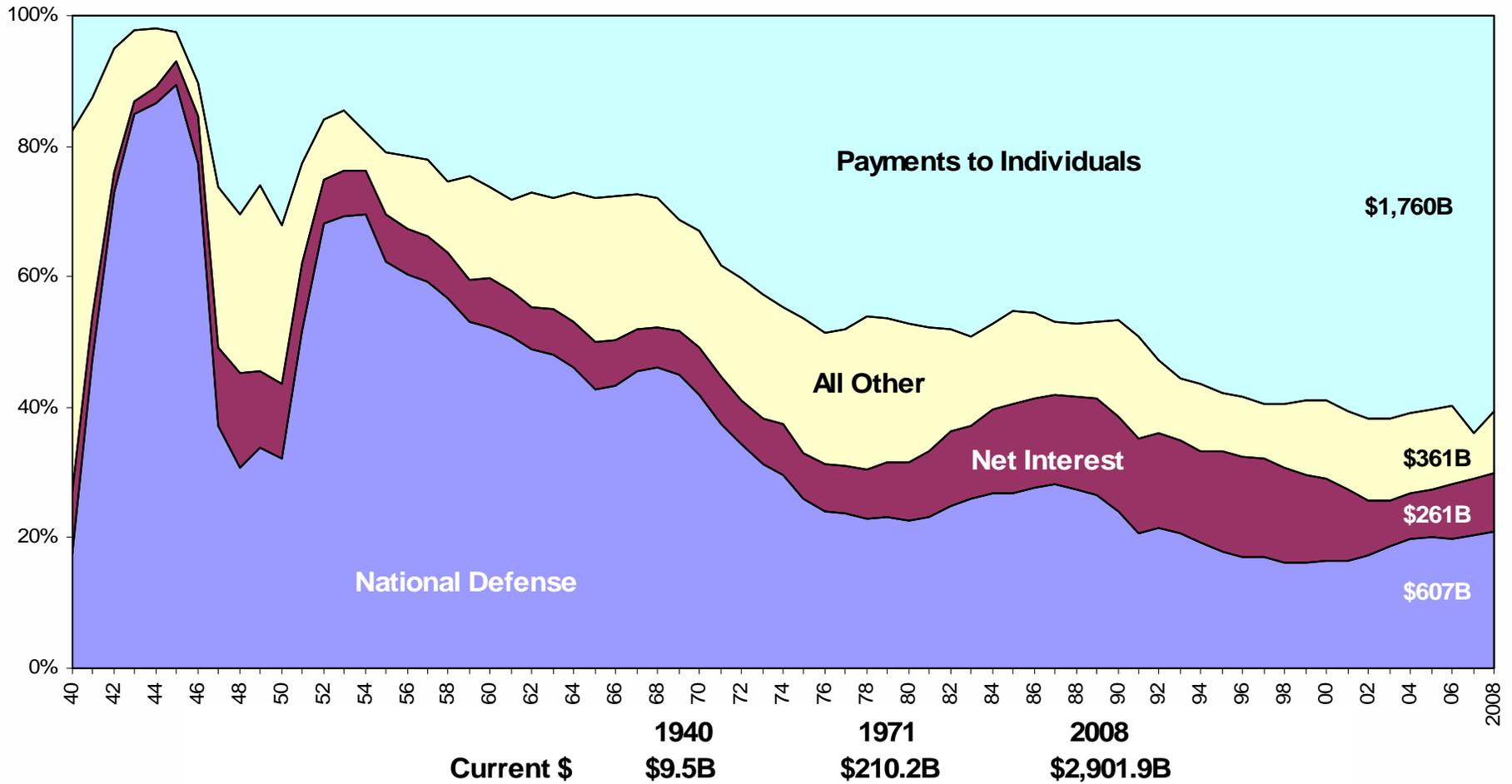
- **Dr. Jeanette Wing** named Assistant Director of the Directorate for Computer and Information Science and Engineering (CISE)
- **Dr. Tony F. Chan** named Assistant Director for Mathematics and Physical Sciences (MPS)
- **Dr. Cora B. Marrett** named Assistant Director for Education and Human Resources (EHR)
- Search underway for new Assistant Director for Geosciences (GEO)
- **Dr. Henry Blount** named Head, EPSCoR Office (EPSCoR moved to the Office of the Director)
- **Karen Tiplady** named Director, Division of Grants and Agreements (DGA) in BFA



# FY 2008 Budget Context & Outcome



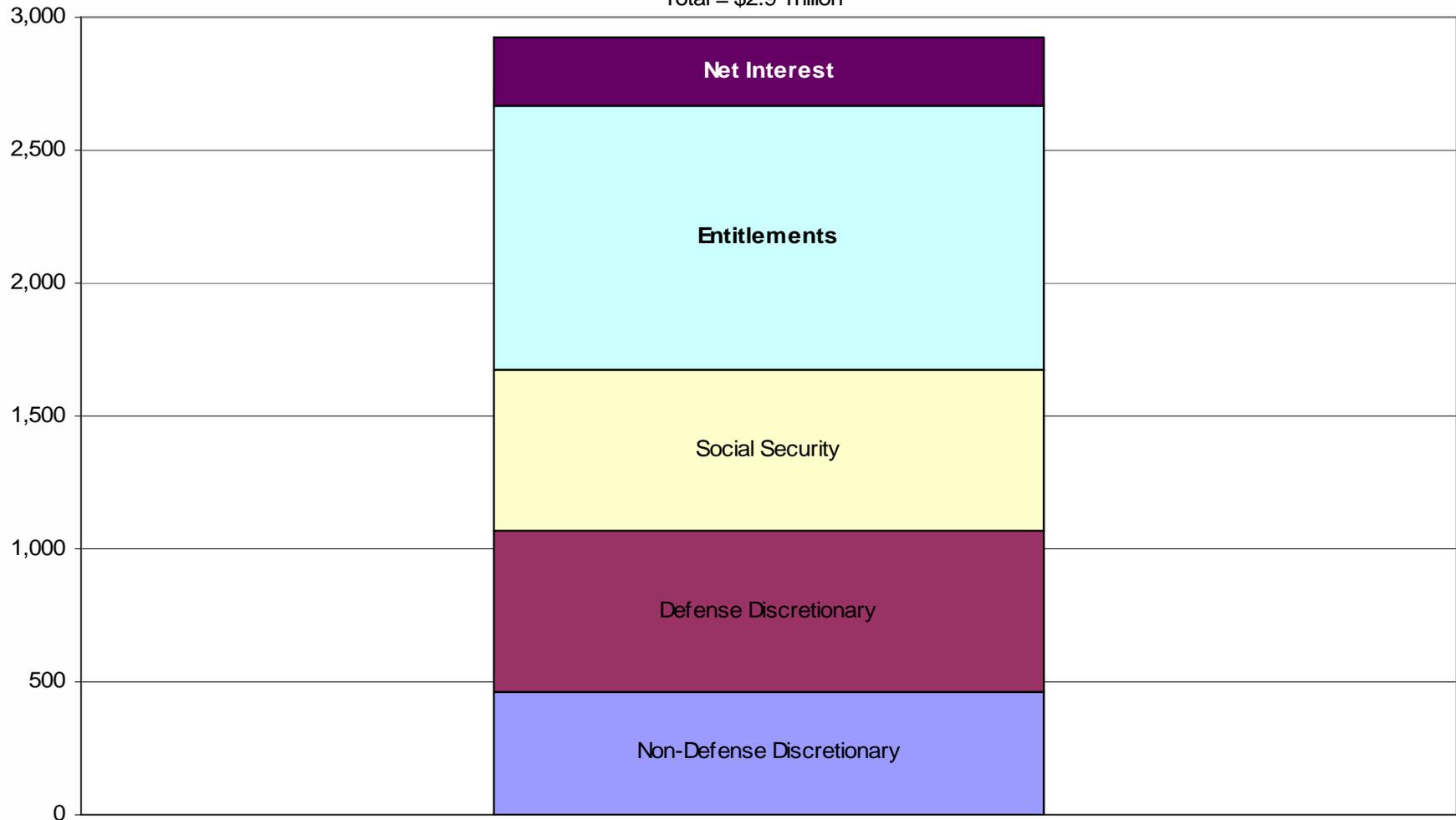
## Percentage Composition of Federal Government Outlays



# Federal Spending - FY 2008

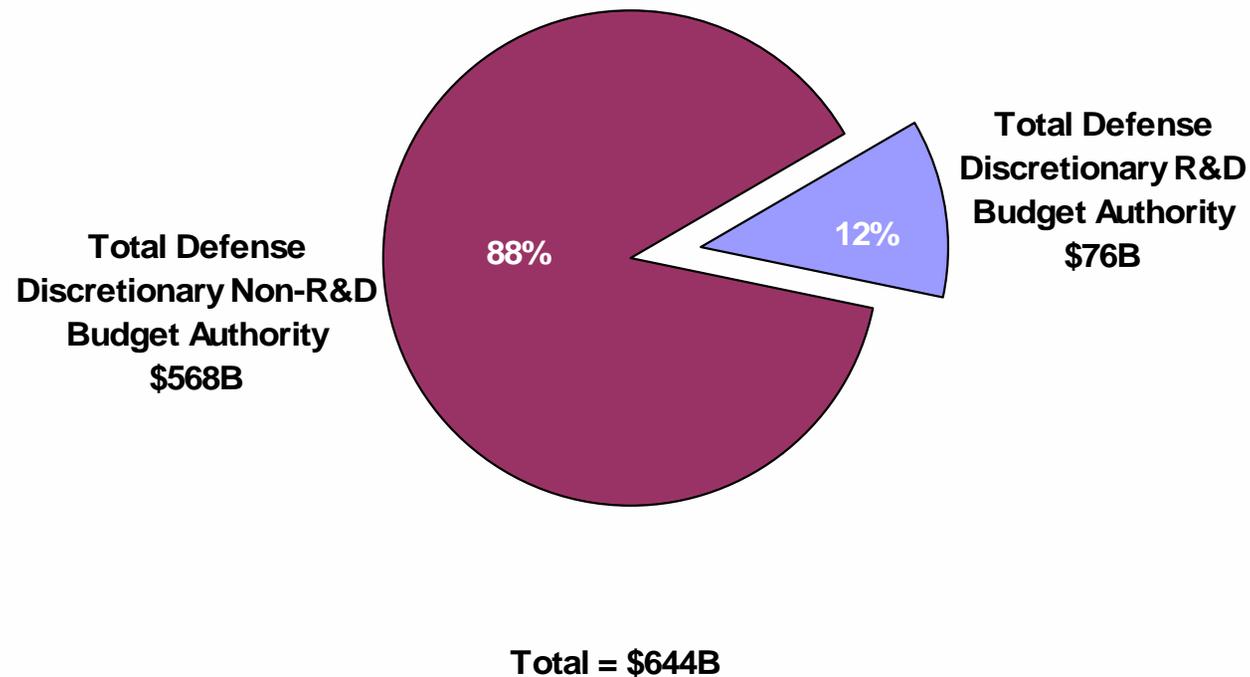
Total = \$2.9 Trillion

\$ in Billions



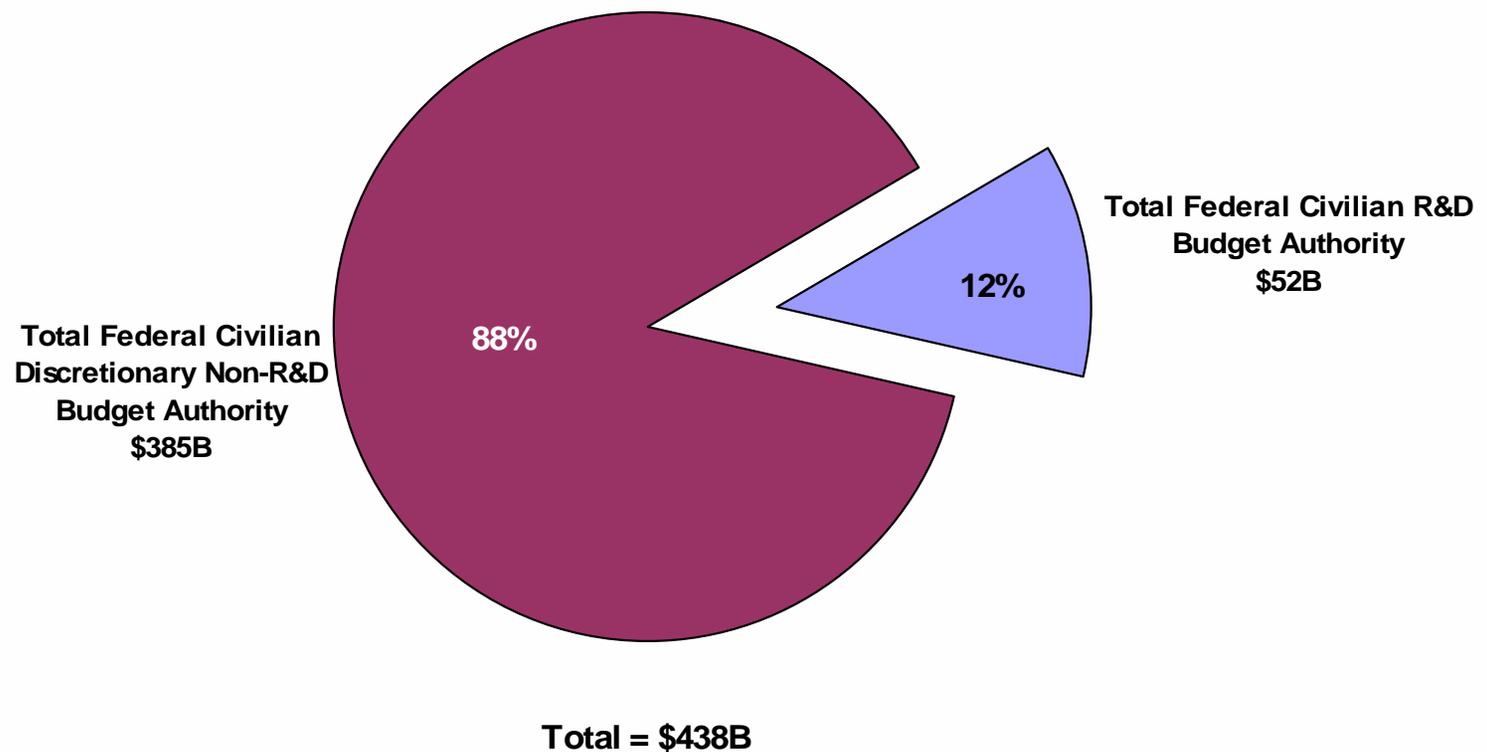
## Defense R&D as a Percent of Total Defense Discretionary Budget Authority – FY 2008

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## Federal Civilian R&D as a Percent of Total Civilian Discretionary Budget Authority -- FY 2008

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# FY 2008 Budget Request

**\$6.43 billion**

**Increase over FY 2007 Request:**

**\$409 million, 6.8%**



## FY 2008 Budget Request by Appropriations Account (millions)

Appropriations Account	FY 2008 Request	Change from FY 2007 Request
Research & Related Activities	\$5,131.69	\$365.74 (7.7%)
Education & Human Resources <sup>1</sup>	\$750.60	\$34.38 (4.8%)
Major Research Equipment & Facilities Construction	\$244.74	\$4.29 (1.8%)
Agency Operations & Award Management	\$285.59	\$3.77 (1.3%)
National Science Board	\$4.03	\$0.12 (3.1%)
Inspector General	\$12.35	\$0.49 (4.1%)
<b>TOTAL, NSF</b>	<b>\$6,429.00</b>	<b>\$408.79 (6.8%)</b>

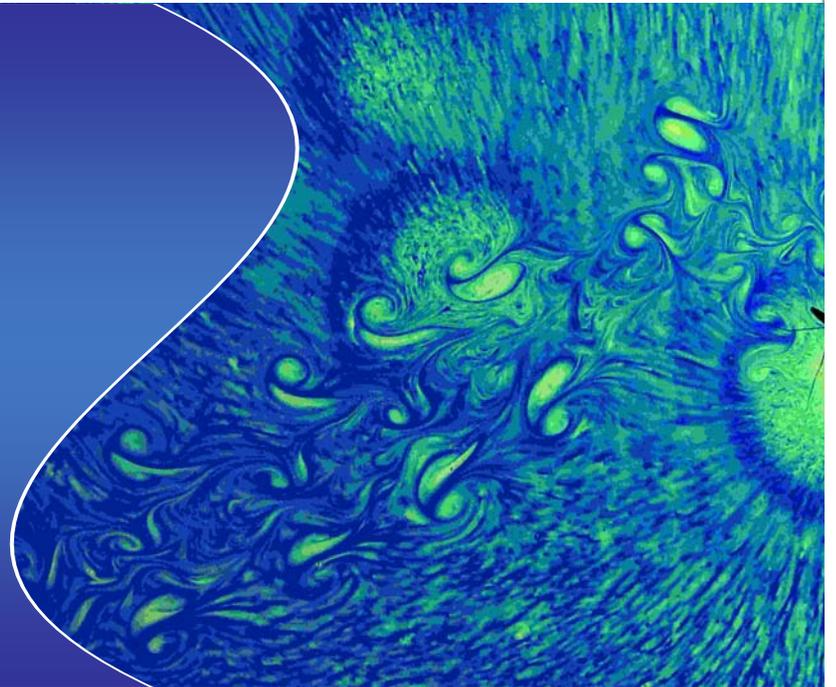
Totals may not add due to rounding.

<sup>1</sup> Funding for EPSCoR is moved to R&RA in FY 2008.



# FY 2008 Budget Priorities

- *Discovery Research for Innovation*
- *Preparing the Workforce for the 21st Century*
- *Transformational Facilities and Infrastructure*
- *International Polar Year Leadership*
- *Stewardship*



# MREFC Projects in FY 2007

- **Ongoing**

- EarthScope
- IceCube
- Scientific Ocean Drilling Vessel
- South Pole Station Modernization
- ALMA

- **New Projects to be Funded in FY 2007**

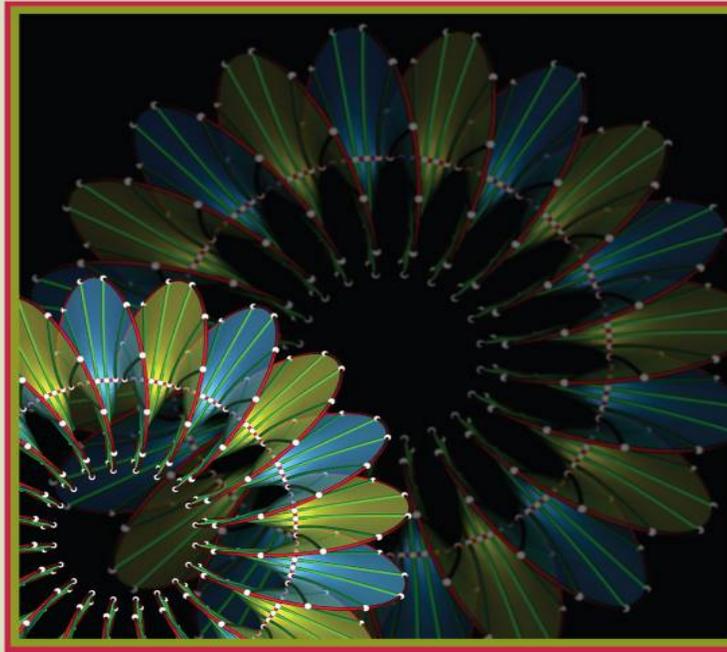
- Alaska Region Research Vessel
- Ocean Observatories Initiative
- National Ecological Observatory Network





National Science Foundation

# INVESTING IN AMERICA'S FUTURE



## STRATEGIC PLAN

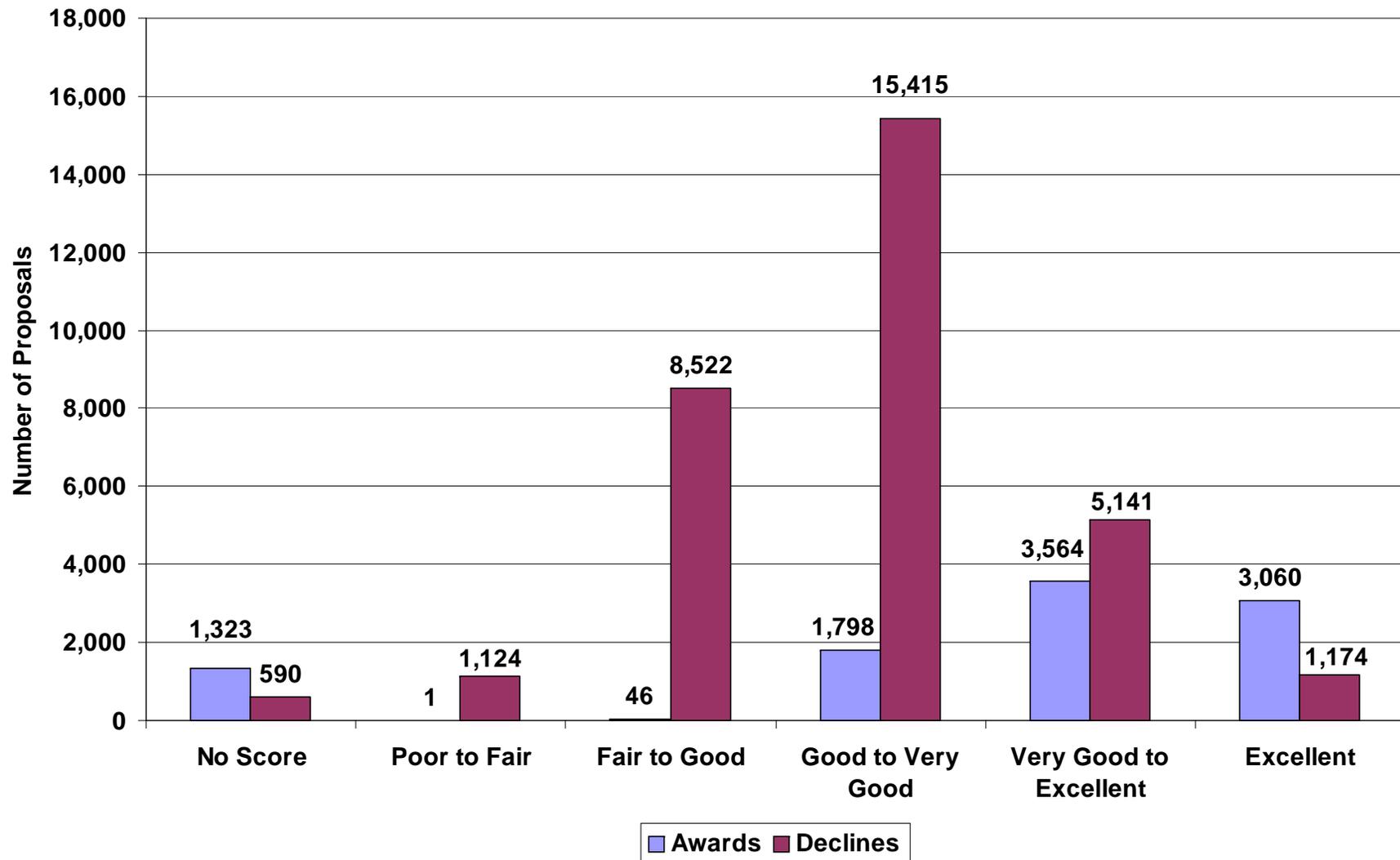
FY 2006-2011



# Current Proposal, Award & Funding Trends



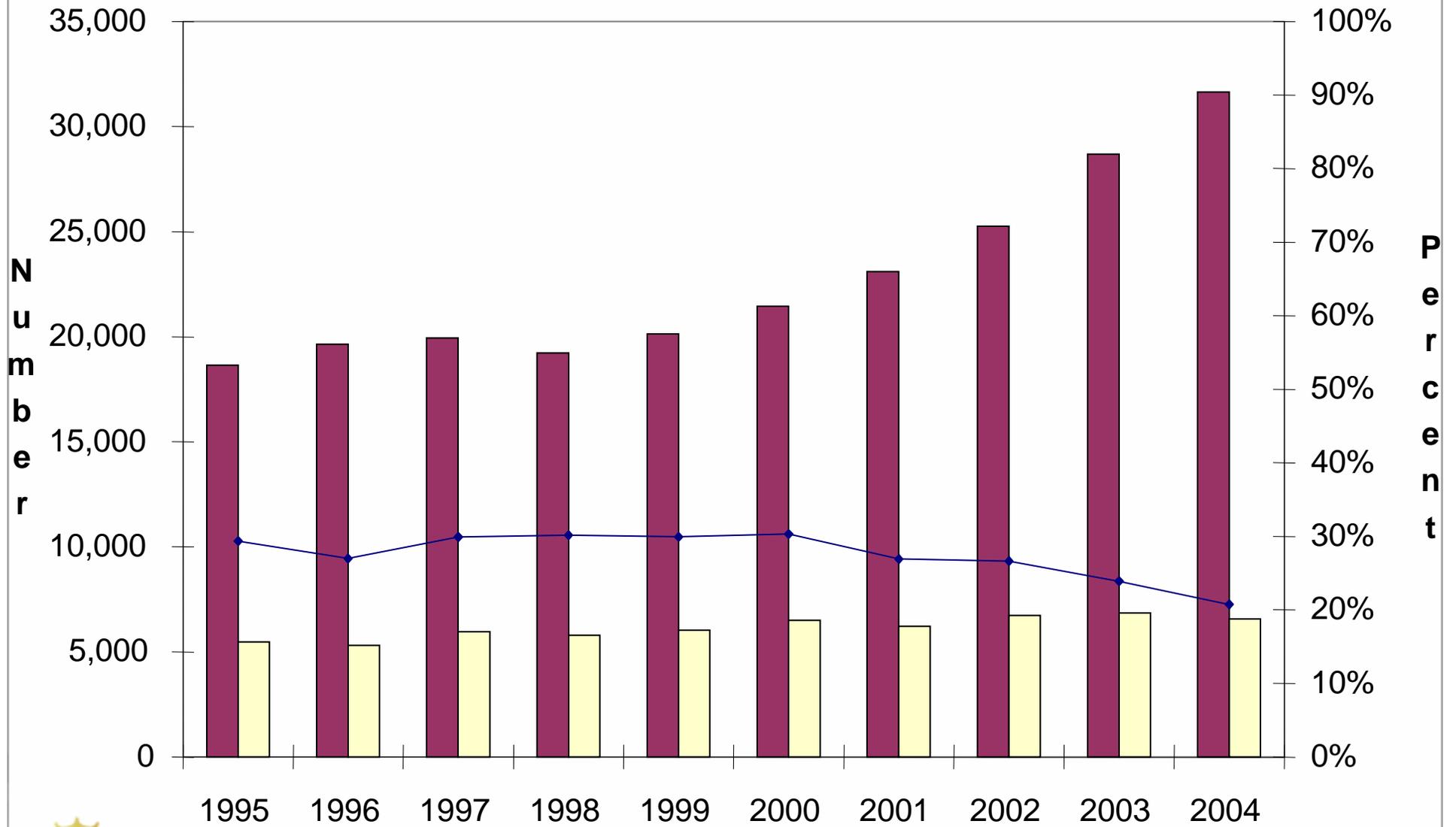
### Distribution of Average Reviewer Ratings FY 2005



Number of Proposals: 31,966 Declines, 9,792 Awards



# NSF Funding Rate for Competitive Awards - Competitive Research Grants



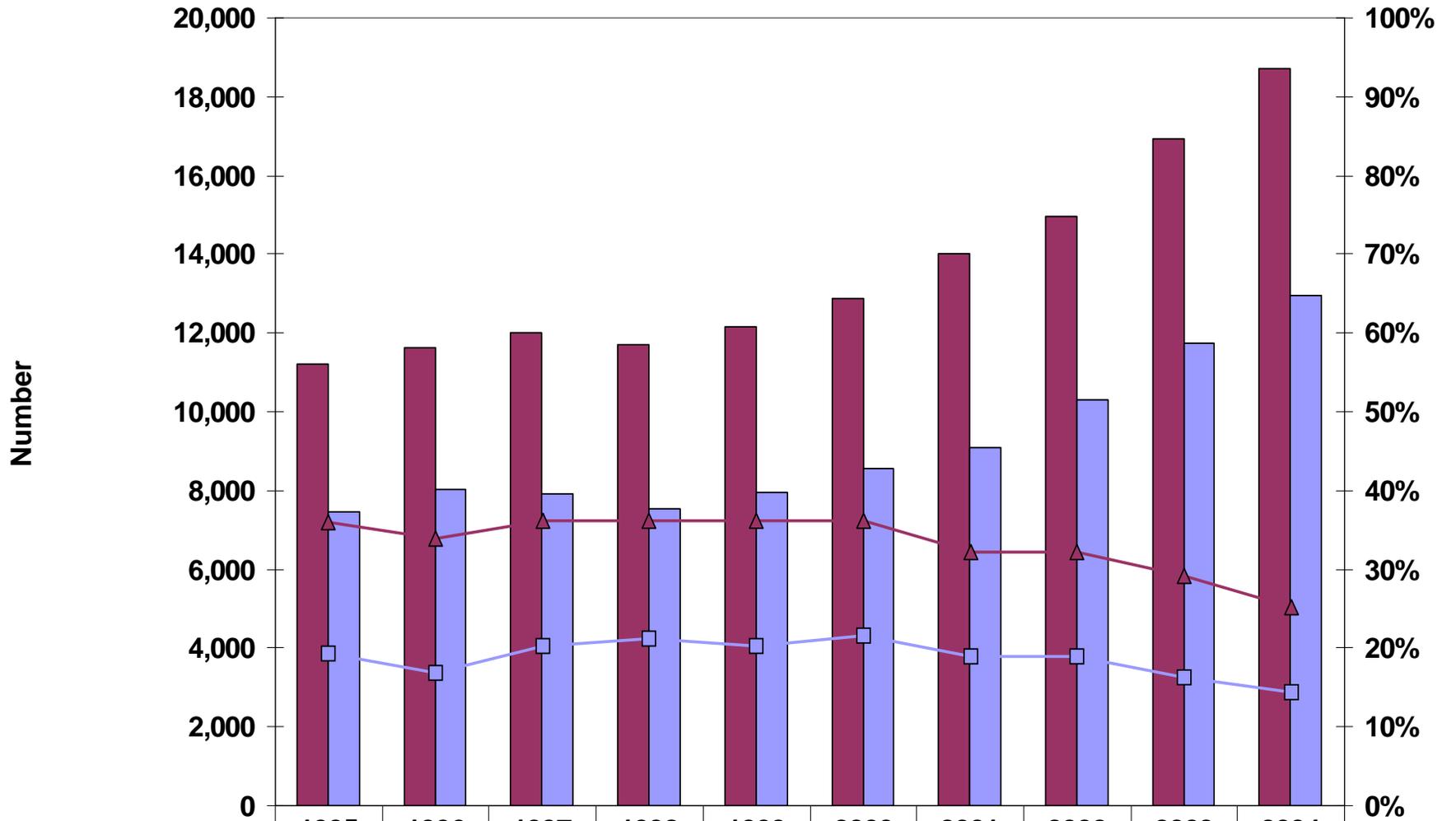
National Science Foundation

Competitive Proposal Actions

Competitive Awards

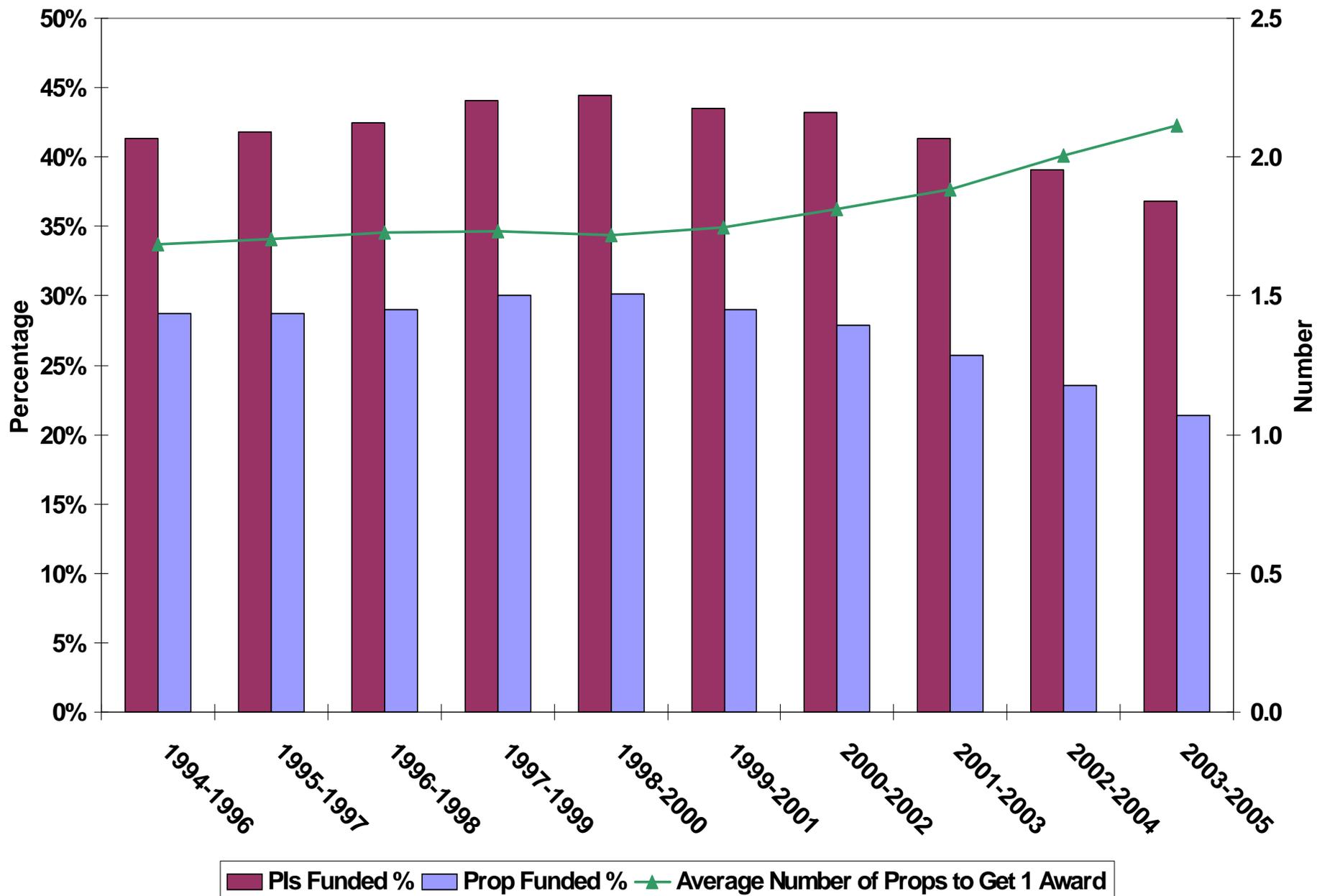
Funding Rate

### Research Grant Proposals by PI Type

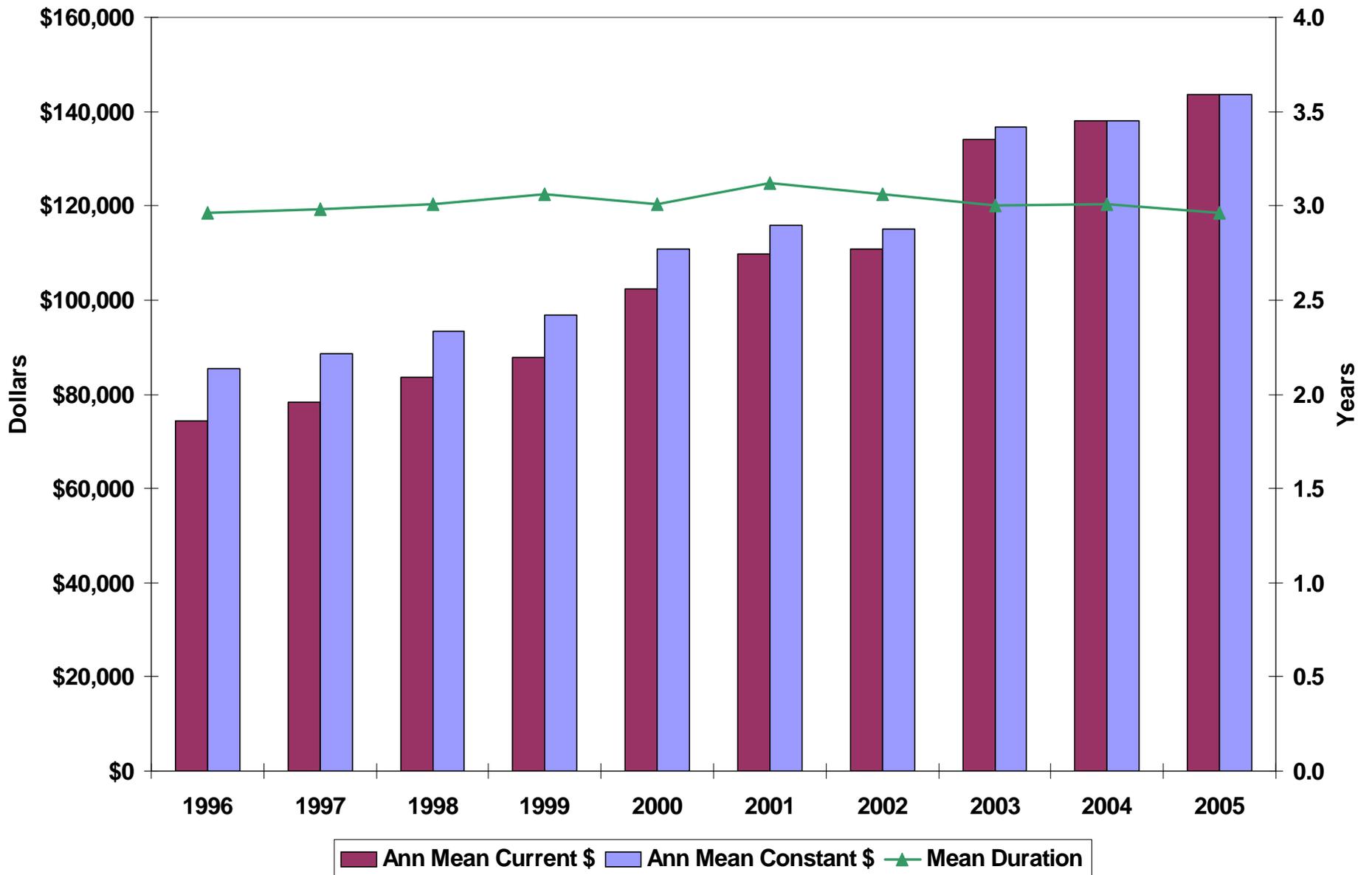


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Proposals - Prior PI</b>	<b>11,203</b>	<b>11,635</b>	<b>12,026</b>	<b>11,693</b>	<b>12,172</b>	<b>12,885</b>	<b>14,013</b>	<b>14,965</b>	<b>16,944</b>	<b>18,700</b>
<b>Proposals - New PI</b>	<b>7,446</b>	<b>8,013</b>	<b>7,910</b>	<b>7,526</b>	<b>7,951</b>	<b>8,561</b>	<b>9,084</b>	<b>10,286</b>	<b>11,752</b>	<b>12,941</b>
<b>Funding Rate - Prior PI</b>	<b>36%</b>	<b>34%</b>	<b>36%</b>	<b>36%</b>	<b>36%</b>	<b>36%</b>	<b>32%</b>	<b>32%</b>	<b>29%</b>	<b>25%</b>
<b>Funding Rate - New PI</b>	<b>19%</b>	<b>17%</b>	<b>20%</b>	<b>21%</b>	<b>20%</b>	<b>22%</b>	<b>19%</b>	<b>19%</b>	<b>16%</b>	<b>14%</b>

## PI vs Proposal Funding Rate - Research Grants Based on 3 Year Intervals



## NSF Competitive Award Size and Duration - Research Grants



A THOMSON COMPANY

\*Based on estimated 2003-2004 Deflators

# Key Documents

- **FY 2007 NSF Budget Request**
  - <http://www.nsf.gov/about/budget/fy2007>
- **FY 2008 NSF Budget Request**
  - <http://www.nsf.gov/about/budget/fy2008/index.jsp>
- **Proposal & Award Policies & Procedures Guide**
  - [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=papp](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=papp)
- **Science and Engineering Indicators**
  - <http://www.nsf.gov/statistics/seind06/>
- **When in doubt:**
  - <http://www.nsf.gov/>



# NSF Websites

National Science Board	<a href="http://www.nsf.gov/nsb/">http://www.nsf.gov/nsb/</a>
Director/Deputy Director	<a href="http://www.nsf.gov/od/">http://www.nsf.gov/od/</a>
Inspector General	<a href="http://www.nsf.gov/oig/">http://www.nsf.gov/oig/</a>
Office of Cyberinfrastructure	<a href="http://www.nsf.gov/dir/index.jsp?org=OCI">http://www.nsf.gov/dir/index.jsp?org=OCI</a>
Office of International Science and Engineering	<a href="http://www.nsf.gov/div/index.jsp?div=OISE">http://www.nsf.gov/div/index.jsp?div=OISE</a>
Office of Equal Opportunity Programs	<a href="http://www.nsf.gov/od/oeo/index.jsp">http://www.nsf.gov/od/oeo/index.jsp</a>
Office of Legislative and Public Affairs	<a href="http://www.nsf.gov/od/lpa/index.jsp">http://www.nsf.gov/od/lpa/index.jsp</a>
Office of the General Counsel	<a href="http://www.nsf.gov/od/ogc/index.jsp">http://www.nsf.gov/od/ogc/index.jsp</a>
Office of Polar Programs	<a href="http://www.nsf.gov/dir/index.jsp?org=opp">http://www.nsf.gov/dir/index.jsp?org=opp</a>
Office of Integrative Activities	<a href="http://www.nsf.gov/od/oia/index.jsp">http://www.nsf.gov/od/oia/index.jsp</a>
Biological Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=BIO">http://www.nsf.gov/dir/index.jsp?dir=BIO</a>
Social, Behavioral & Economic Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=SBE">http://www.nsf.gov/dir/index.jsp?dir=SBE</a>
Computer & Information Science & Engineering	<a href="http://www.nsf.gov/dir/index.jsp?dir=CISE">http://www.nsf.gov/dir/index.jsp?dir=CISE</a>
Education & Human Resources	<a href="http://www.nsf.gov/dir/index.jsp?dir=EHR">http://www.nsf.gov/dir/index.jsp?dir=EHR</a>
Engineering	<a href="http://www.nsf.gov/dir/index.jsp?dir=ENG">http://www.nsf.gov/dir/index.jsp?dir=ENG</a>
Budget, Finance & Award Management	<a href="http://www.nsf.gov/bfa/">http://www.nsf.gov/bfa/</a>
Geosciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=GEO">http://www.nsf.gov/dir/index.jsp?dir=GEO</a>
Information Resource Management	<a href="http://www.nsf.gov/oirm/">http://www.nsf.gov/oirm/</a>
Mathematical & Physical Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=MPS">http://www.nsf.gov/dir/index.jsp?dir=MPS</a>

