Update on Government-wide Initiatives
NSF Advisory Committee for Business and Operations

Mary F. Santonastasso, Director, Division of Institution and Award Support
Andrea T. Norris, Deputy CIO and Director, Division of Information Systems
Purpose

- Provide an update on the Grants.gov implementation
- Provide an update on Research.gov
- Respond to Committee’s request to provide plans to leverage university investments
Government-wide activities: Grants.gov

- Grants.gov started in 2003 as the government-wide solution to “FIND” and “APPLY” for grants for 26 major grant-making agencies.
  - NSF posts 100% of funding opportunities to Grants.gov FIND
  - NSF accepts proposals submitted via Grants.gov APPLY as well as FastLane (~3% of NSF proposals are submitted via Grants.gov)

- In early 2009, Grants.gov experienced sustained performance degradation and asked OMB for assistance.

- In March 2009, an OMB Memo instructed agencies to identify alternative methods for accepting applications during Recovery Act peak period.
  - NSF continued to post all opportunities to Grants.gov FIND
  - NSF required proposal submission through FastLane

- Now that the Recovery Act peak period has passed, OMB has encouraged agencies to reinstate support for Grants.gov APPLY.
  - NSF will support Grants.gov APPLY option no later than December 1, 2009
Research.gov Update
Research.gov Overview

- Modernizes FastLane (plus more) in partnership with other research agencies.

- Focused on the needs of institutions and researchers:
  - Menu of services and information spanning multiple Federal agencies
  - Tailored to meeting the unique needs of the research community
  - Intuitive, easy-to-use environment to conduct business with the Federal Government

- Increases transparency of Federal research spending and outcomes.

- Provides the public, scientific community, and Congress with easy access to information.

- Leverages government-wide solutions, such as Grants.gov and modern technology standards.
Research.gov Partnerships

- Research.gov simplifies the research community’s access to information and research services for multiple Federal agencies:
  - National Science Foundation (Lead Agency)
  - National Aeronautics and Space Administration (Partner Agency)
  - Department of Defense Research (Partner Agency)
  - National Institute of Food and Agriculture (Partner Agency)
  
  Formerly USDA’s Cooperative State Research, Education, and Extension Service
Government-wide Grants
- “FIND” Grant Opportunities
- “APPLY” for Grants

NSF
- NSF-oriented services for:
  - Institutions and researchers

  - Prepare and submit:
    - Proposals
    - Financial Transactions and Reports
    - Project Reports
    - Requests related to awards

Broader Community
- Partnership of research agencies providing research-focused services for:
  - Institutions and Researchers
  - Key Stakeholders
  - NSF Staff/Program Staff
  - General Public

- Mission Focused Services To:
  - Plan programs
  - Accept proposals
  - Conduct merit review
  - Manage awards
  - Publish results
  - Find policies, news, and events
Research.gov

- Public Facing Services:
  - Research Spending & Results
    - Find NSF Recovery Act Awards
  - Policy Library (Government-wide)
  - Research Headlines and Events
  - Science and Innovation (coming soon)

- Research Community Services:
  - View the status of grant applications
    - Sponsored Project Office
    - Principal Investigator
  - Submit Federal Financial Reports
  - Manage institution and user accounts
  - Project Outcomes Report for the general public (coming soon)
  - Research Performance Project Report (Focus in FY2010)
  - Proposal Submission Services (coming soon)

- Research.gov Desktop for NSF Staff
  - Find Reviewers (coming soon)
  - Search Proposals (coming soon)
Emerging Landscape for Submissions

- Several options to submit applications to Federal Government:
  - Web-based interactive agency system that guides applicant through process
  - Use of Grants.gov Adobe Forms to apply (downloadable fillable forms)
  - “System-to-System” proposal data transfer from university system to Grants.gov or other system
Leveraging University Investments

- More and more universities are investing in commercial (and institution) software products to support administrative and business requirements related to Federal grant processes.
  - Implementation status and business use/value varies by university and product
  - Universities are implementing these systems to save time and resources and achieve efficiencies
  - Universities are at varying levels of maturity in terms of the scale and scope of their business processes and supporting technology products

- Changing market place for Universities:
  - Major commercial providers include: Cayuse, Click Commerce, InfoED, and ERA Software
  - University sponsored commercial products include: Coeus (MIT)
  - Institution providers include: Duke University and University of Washington
Leveraging Standards

- Products rely heavily on government and technology standards to communicate with other applications or products.
  - Core data sets and government-wide data standards (e.g., Research & Related data set)
  - Industry technology standards (Web services)
    - Platform independent secure messaging service (SSL with mutual authentication)
    - Standard language (XML) and protocols (SOAP)
    - Web service description (WSDL)
A number of institutions volunteered to test new web services for transmitting data between university systems and Research.gov
- California Institute of Technology and University of Texas at Austin: Using Cayuse commercial product
- Massachusetts Institute of Technology: Using Coeus product
- Duke University: Using custom institution-specific system

Multiple vendors are extending their web services to better support their university customers

Experience to date has been positive
- Institutions like using their local system as the “common environment” for supporting end-to-end business needs
- Vendors see significant value from relatively low cost and effort
- Everyone wants capability to seamlessly submit more than just proposals (e.g., Project Reports)
Next Steps

- NSF to reinstate Grants.gov as an option for proposal submission by December 1, 2009.

- Research.gov Submission Service (Web Service):
  - Collect feedback, enhance service, and then expand to more institutions.

- Incorporate Business and Operations Advisory Committee feedback into plans.

- Continue to engage the research community in NSF plans and services.